



WARNING: INCREASED MORTALITY IN ELDERLY PATIENTS WITH DEMENTIA-RELATED PSYCHOSIS, SUICIDAL THOUGHTS AND BEHAVIORS
Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. Brexpiprazole (Rexult) is not approved for treatment of elderly patients with dementia-related psychosis. (See Warnings and Precautions (5.3)).

Contraindications
Brexiprazole (Rexult) is contraindicated in patients with a known hypersensitivity to Brexpiprazole (Rexult) or any of its components. Reactions have included rash, angioedema, facial swelling, urticaria, and anaphylaxis.

Warnings and Precautions
1. **Increased Mortality in Elderly Patients with Dementia-Related Psychosis**
Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. Analysis of 17 placebo-controlled trials (total duration of 10 weeks, long-term studies) involving antipsychotic drugs revealed a risk of death in treated patients of 1.6 to 1.7 times the rate of death in placebo-treated patients. The cause of death was unclear in the majority of cases. In the majority of cases, the rate of death in drug-treated patients was about 4.5% compared to a rate of about 2.6% in the placebo group.

2.3 Dosage Adjustments for Hepatic Impairment
For patients with moderate to severe hepatic impairment (Child-Pugh score 3-7), the maximum recommended dosage is 2 mg once daily for patients with MDD, and 3 mg once daily for patients with schizophrenia. (See U.S. Specific Populations (8.3), Clinical Pharmacology (12.3)).

2.4 Dosage Adjustments for CYP2D6 Poor Metabolizers and for Concomitant Use with CYP3A4 and CYP2D6 Inhibitors and/or CYP3A4 Inducers

Factors	Adjusted Brexpiprazole (Rexult) Dosage
CYP2D6 Poor Metabolizers	Administer half of the usual dose
CYP2D6 poor metabolizers taking strong/moderate CYP3A4 inhibitors	Administer a quarter of the usual dose
Patients Taking CYP2D6 Inhibitors and/or CYP3A4 Inhibitors	
Strong CYP2D6 inhibitors*	Administer half of the usual dose
Strong CYP3A4 inhibitors	Administer a quarter of the usual dose
Strong/moderate CYP2D6 inhibitors with strong/moderate CYP3A4 inhibitors	Administer a quarter of the usual dose
Patients Taking CYP3A4 Inducers	Double usual dose over 1 to 2 weeks
Strong CYP3A4 inducers	Double usual dose over 1 to 2 weeks

2.5 Dosage Forms and Strengths
Brexiprazole (Rexult) tablets are available in 4 strengths (see Table 2).

Tablet Strength	Tablet Color/Shape	Tablet Markings
1 mg	Light yellow	Round, shallow convex, beveled edge "BR" and "1"
2 mg	Light green	Round, shallow convex, beveled edge "BR" and "2"
3 mg	Light purple	Round, shallow convex, beveled edge "BR" and "3"
4 mg	White	Round, shallow convex, beveled edge "BR" and "4"

4. Contraindications
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5. Warnings and Precautions
5.1 **Increased Mortality in Elderly Patients with Dementia-Related Psychosis**
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5.2 Suicidal Thoughts and Behaviors in Children, Adolescents and Young Adults
In pooled analyses of placebo-controlled maintenance studies in children and adolescents (including approximately 7,000 adult patients, and over 4,000 pediatric patients), the incidence of suicidal thoughts and behaviors in patients aged 24 years and younger was greater in antipsychotic-treated patients than in placebo-treated patients. The clinical effects of Brexpiprazole (Rexult) on suicidal thoughts and behaviors in pediatric patients are unknown.

5.3 Cardiovascular Adverse Reactions Including Stroke in Elderly Patients with Dementia-Related Psychosis
In placebo-controlled trials involving elderly patients with dementia-related psychosis, Brexpiprazole (Rexult) was associated with a higher incidence of stroke and transient ischemic attack, including fatal stroke. Brexpiprazole (Rexult) is not approved for the treatment of elderly patients with dementia-related psychosis. (See Boxed Warning, Warnings and Precautions (5.3)).

5.4 Neuroleptic Malignant Syndrome (NMS)
A potentially fatal syndrome has been referred to as Neuroleptic Malignant Syndrome (NMS) has been reported in association with administration of antipsychotic drugs, including Brexpiprazole (Rexult). Clinical manifestations of NMS include hyperreflexia, muscle rigidity, altered mental status and evidence of autonomic instability. Additional signs may include elevated creatine phosphokinase, myoglobinuria (rhabdomyolysis), and acute renal failure.

5.5 Tardive Dyskinesia
Tardive dyskinesia, a syndrome consisting of potentially irreversible, involuntary, dyskinetic movements, may develop in patients treated with antipsychotic drugs. The risk appears to be highest among the elderly, especially elderly women, but it is not possible to predict which patients are likely to develop the syndrome. They can develop after the initial treatment course and may not be reversible. It may also occur after discontinuation of the drug. The syndrome can be exacerbated by the use of dopamine antagonists.

5.6 Neuroleptic Induced Dyskinesia
Neuroleptic induced dyskinesia, a syndrome consisting of potentially reversible, involuntary, dyskinetic movements, may develop in patients treated with antipsychotic drugs. The risk appears to be highest among the elderly, especially elderly women, but it is not possible to predict which patients are likely to develop the syndrome. They can develop after the initial treatment course and may not be reversible. It may also occur after discontinuation of the drug. The syndrome can be exacerbated by the use of dopamine antagonists.

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5.8 Metabolic Changes
Neuroleptic adverse reactions, including hyperglycemia, diabetes mellitus, dyslipidemia, and obesity, have been reported in patients treated with antipsychotic drugs. Although all of the signs in the data to date have been associated with metabolic changes, each drug has its own specific risk profile.

5.9 Hypertension and Orthostatic Hypotension
Hypertension, in some cases extreme and associated with bradycardia or hypotension or coma or death, has been reported in patients treated with atypical antipsychotics. There have been reports of orthostatic hypotension in patients treated with Brexpiprazole (Rexult). (See Adverse Reactions (6.2)). Assess fasting plasma glucose before or soon after initiation of antipsychotic medication, and monitor periodically during long-term treatment.

5.10 Changes in Fasting Triglycerides in the 6-Week, Placebo-Controlled, Fixed-Dose Schizophrenia Trials
In the 6-week, placebo-controlled, fixed-dose clinical trials in patients with schizophrenia, the proportions of patients with shifts in fasting glucose from normal (<100 mg/dL) to high (>125 mg/dL) or borderline (>100 mg/dL) to high were similar in patients taking Brexpiprazole (Rexult) and placebo. In the long-term, open-label maintenance studies, 8% of patients with normal baseline fasting glucose experienced a shift from normal to high while taking Brexpiprazole (Rexult). In the long-term, open-label maintenance studies, 17% of patients with normal baseline fasting glucose experienced a shift from normal to high while taking Brexpiprazole (Rexult). In the long-term, open-label maintenance studies, 17% of patients with normal baseline fasting glucose experienced a shift from normal to high while taking Brexpiprazole (Rexult).

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Triglycerides Normal to High (<150 mg/dL to >200 and <500 mg/dL)	Proportion of Patients with Shifts Baseline to Post-Baseline		
	Placebo	1 mg/day	2 mg/day
Normal/Borderline to Very High (>200 mg/dL to >500 mg/dL)	0%	0%	0%
Denotes shift when N=the total number of subjects who had a measurement at baseline and at least one post-baseline result, n=the number of subjects with shift.			

5.12 Pathological Gambling and Other Compulsive Behaviors
Post-marketing case reports suggest that patients can experience intense urges, particularly for gambling, and the ability to control these urges while taking Brexpiprazole (Rexult). Other compulsive urges reported less frequently include sexual urges, shopping, eating or binge eating, and other behaviors of compulsive behaviors. Because patients may not recognize these behaviors as abnormal, it is important for prescribers to ask patients or their caregivers specifically about the development of new or intense gambling urges, compulsive sexual urges, shopping, eating or binge eating, or other urges while being treated with Brexpiprazole (Rexult). In some cases, although not all, urges are reported to have stopped when the dose was reduced or the medication was discontinued. Compulsive behaviors may result in harm to the patient and others if not recognized. Consider dose reduction or stopping the medication if a patient develops such urges.

5.13 Leukopenia, Neutropenia, and Agranulocytosis
Leukopenia and neutropenia have been reported during antipsychotic agents. Agranulocytosis (including fatal cases) has been reported by other agents in this class. Possible risk factors for leukopenia and neutropenia include preexisting low white blood cell count (WBC) or absolute neutrophil count (ANC) and history of abnormal hematology or neutropenia. In patients with a preexisting low WBC or ANC, or a history of abnormal hematology or neutropenia, perform a complete blood count (CBC) frequently during the first few months of therapy. In such patients, consider discontinuation of Brexpiprazole (Rexult) at the first sign of a clinically significant decrease in WBC in the absence of other obvious factors.

5.14 Potential for Cognitive and Motor Impairment
Patients should be cautioned about operating hazardous machinery, including motor vehicles, until they are reasonably certain that Brexpiprazole (Rexult) therapy does not affect them adversely.

5.15 Fertility
Brexiprazole (Rexult) can elevate prolactin levels. Elevations associated with brexpiprazole treatment are generally mild and may decline during administration, however, in some infrequent cases the effect persists for several months.

5.16 Adverse Reactions
The following adverse reactions are discussed in more detail in other sections of the labeling:
• Increased Mortality in Elderly Patients with Dementia-Related Psychosis (See Boxed Warning, Warnings and Precautions (5.3))
• Suicidal Thoughts and Behaviors in Children, Adolescents and Young Adults (See Boxed Warning, Warnings and Precautions (5.2))
• Cardiovascular Adverse Reactions Including Stroke in Elderly Patients with Dementia-Related Psychosis (See Warnings and Precautions (5.3))
• Neuroleptic Malignant Syndrome (NMS) (See Warnings and Precautions (5.4))
• Tardive Dyskinesia (See Warnings and Precautions (5.5))
• Metabolic Changes (See Warnings and Precautions (5.8))
• Pathological Gambling and Other Compulsive Behaviors (See Warnings and Precautions (5.7))
• Leukopenia, Neutropenia, and Agranulocytosis (See Warnings and Precautions (5.6))
• Orthostatic Hypotension and Syncope (See Warnings and Precautions (5.9))
• Falls (See Warnings and Precautions (5.9))
• Seizures (See Warnings and Precautions (5.11))
• Body Temperature Dysregulation (See Warnings and Precautions (5.12))
• Dysphagia (See Warnings and Precautions (5.13))
• Prolonged QTc Interval and QTc Prolongation (See Warnings and Precautions (5.14))

5.17 Clinical Trial Experience
Schizophrenia clinical trials were conducted under widely varying conditions, adverse reaction rates observed in clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

Major Depressive Disorder
The safety of Brexpiprazole (Rexult) was evaluated in 1,054 patients (18 to 85 years of age) diagnosed with MDD who participated in two 6-week, placebo-controlled, fixed-dose clinical trials in patients with MDD. Brexpiprazole (Rexult) was administered at doses of 1 mg to 4 mg daily as adjunctive therapy to continued antidepressant therapy. Patients in the placebo group continued to receive antidepressant therapy. (See Clinical Pharmacology (12.3)).

Common Adverse Reactions
Adverse reactions associated with the adjunctive use of Brexpiprazole (Rexult) (incidence of 2% or greater and Brexpiprazole (Rexult) incidence greater than placebo) during short-term (up to 6 weeks) trials in patients with MDD are shown in Table 6.

Table 6: Adverse Reactions in Pooled 6-Week, Placebo-Controlled, Fixed-Dose MDD Trials (Studies 1 and 2)*

Adverse Reaction	Brexiprazole (Rexult)			
	Placebo (N=411)	1 mg/day (N=225)	2 mg/day (N=188)	All Brexpiprazole (Rexult) (N=643)
Gastrointestinal Disorders				
Constipation	1%	3%	2%	1%
General Disorders and Administration Site Conditions				
Fatigue	2%	3%	2%	5%
Infections and Infestations				
Nasopharyngitis	2%	7%	1%	3%
Investigations				
Weight Increased	2%	7%	0%	7%
Blood Cortisol Decreased	1%	4%	6%	3%
Metabolism and Nutrition				
Nervous System Disorders	2%	3%	3%	2%
Alakalia	2%	4%	7%	14%
Headache	6%	9%	4%	7%
Somnolence	0.5%	4%	2%	5%
Tremor	2%	4%	2%	4%
Dizziness	1%	1%	5%	2%
Psychiatric Disorders				
Anxiety	1%	2%	4%	4%
Restlessness	0%	2%	3%	4%

* Adverse reactions that occurred in 2% of Brexpiprazole (Rexult)-treated patients and greater incidence than in placebo-treated patients. Dose-Related Adverse Reactions in the MDD trials. In Studies 1 and 2, among the adverse reactions that occurred at 2% incidence in the patients treated with Brexpiprazole (Rexult)+ADT, the incidences of akathisia and restlessness increased with increases in dose.

Schizophrenia
The safety of Brexpiprazole (Rexult) was evaluated in 882 patients (18 to 85 years of age) diagnosed with schizophrenia who participated in two 6-week, placebo-controlled, fixed-dose clinical trials in patients with schizophrenia. Brexpiprazole (Rexult) was administered at daily doses of 1 mg, 2 mg and 4 mg. (See Clinical Studies (14.2)).

Common Adverse Reactions
Adverse reactions associated with Brexpiprazole (Rexult) (incidence of 2% or greater and Brexpiprazole (Rexult) incidence greater than placebo) during short-term (up to 6 weeks) trials in patients with schizophrenia are shown in Table 7.

Table 7: Adverse Reactions in Pooled 6-Week, Placebo-Controlled, Fixed-Dose Schizophrenia Trials (Studies 3 and 4)*

Adverse Reaction	Brexiprazole (Rexult)			
	Placebo (N=368)	1 mg/day (N=225)	2 mg/day (N=166)	All Brexpiprazole (Rexult) (N=652)
Gastrointestinal Disorders				
Dyspepsia	2%	6%	2%	3%
Diarrhea	2%	1%	3%	3%
Investigations				
Weight Increased	2%	3%	4%	4%
Blood Creatine Phosphokinase Increased	1%	4%	2%	2%
Nervous System Disorders				
Alakalia	5%	4%	5%	7%
Tremor	1%	2%	2%	3%
Syncope	1%	2%	2%	2%

* Adverse reactions that occurred in 2% of Brexpiprazole (Rexult)-treated patients and greater incidence than in placebo-treated patients. Dose-Related Adverse Reactions in the Schizophrenia trials. The incidence of reported EPS-related adverse reactions, including akathisia, was 6% for Brexpiprazole (Rexult)+ADT-treated patients versus 3% for placebo+ADT-treated patients. The incidence of akathisia events for Brexpiprazole (Rexult)+ADT-treated patients was 9% versus 2% for placebo+ADT-treated patients. In the 6-week, placebo-controlled, fixed-dose schizophrenia studies, data was objectively collected on the Simpson Angus Rating Scale (SARS) for extrapyramidal symptoms (EPS), the Barnes Akathisia Rating Scale (BARS) for akathisia and the Abnormal Involuntary Movement Score (AIMS) for dyskinesia. The mean change from baseline at last visit for Brexpiprazole (Rexult)+ADT-treated patients was 2.5 (SARS), 0.5 (BARS) and 0.5 (AIMS) compared to placebo-treated patients. The percentage of patients who shifted from normal to abnormal was greater in Brexpiprazole (Rexult)+ADT-treated patients versus placebo+ADT for the BARS (4% versus 0.5%) and the SAS (4% versus 3%).

Schizophrenia
The incidence of reported EPS-related adverse reactions, including akathisia, was 5% for Brexpiprazole (Rexult)-treated patients versus 4% for placebo-treated patients. Incidences of EPS-related adverse reactions were greater than placebo in patients treated with Brexpiprazole (Rexult) versus placebo (2% versus 1%) and the SAS (3% versus 3%).

Other Adverse Reactions Observed During the Prolonged Evaluation of Brexpiprazole (Rexult)
In the 6-week, placebo-controlled, fixed-dose schizophrenia studies, data was objectively collected on the Simpson Angus Rating Scale (SARS) for extrapyramidal symptoms (EPS), the Barnes Akathisia Rating Scale (BARS) for akathisia and the Abnormal Involuntary Movement Score (AIMS) for dyskinesia. The mean change from baseline at last visit for Brexpiprazole (Rexult)+ADT-treated patients was 2.5 (SARS), 0.5 (BARS) and 0.5 (AIMS) compared to placebo-treated patients. The percentage of patients who shifted from normal to abnormal was greater in Brexpiprazole (Rexult)+ADT-treated patients versus placebo+ADT for the BARS (4% versus 0.5%) and the SAS (4% versus 3%).

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In the 6-week, placebo-controlled, fixed-dose schizophrenia studies, data was objectively collected on the Simpson Angus Rating Scale (SARS) for extrapyramidal symptoms (EPS), the Barnes Akathisia Rating Scale (BARS) for akathisia and the Abnormal Involuntary Movement Score (AIMS) for dyskinesia. The mean change from baseline at last visit for Brexpiprazole (Rexult)+ADT-treated patients was 2.5 (SARS), 0.5 (BARS) and 0.5 (AIMS) compared to placebo-treated patients. The percentage of patients who shifted from normal to abnormal was greater in Brexpiprazole (Rexult)+ADT-treated patients versus placebo+ADT for the BARS (4% versus 0.5%) and the SAS (4% versus 3%).

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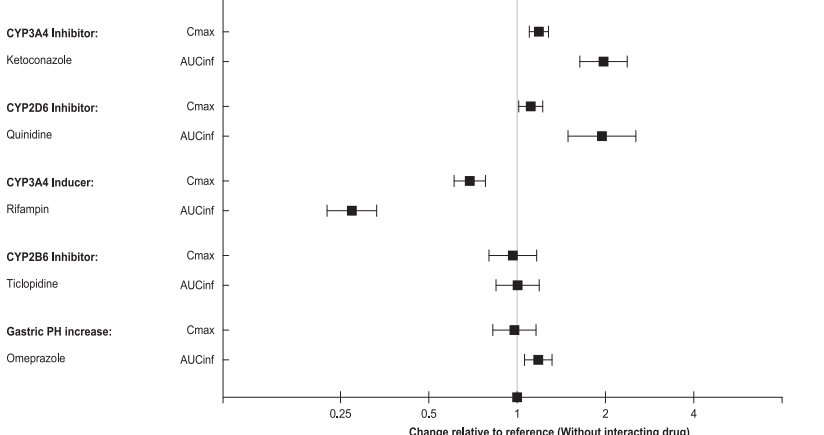
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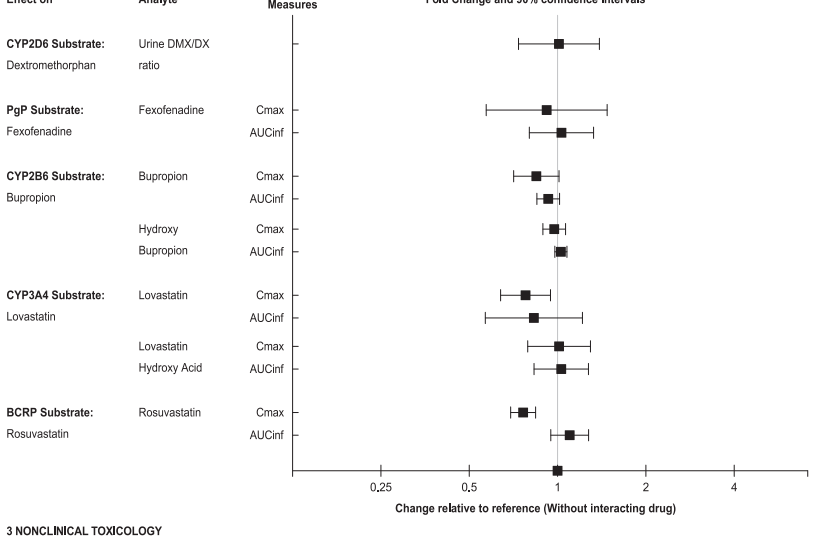
Drug Interaction Studies

Effects of other drugs on the exposure of brexpiprazole are summarized in Figure 2. Based on simulation, a 5-fold increase in AUC values at steady-state is expected when extensive metabolizers of CYP2D6 are administered with both strong CYP2D6 and CYP3A4 inhibitors, A 4.8-fold increase in mean AUC values at steady-state is expected in poor metabolizers of CYP2D6 administered with strong CYP3A4 inhibitors (see Drug Interactions (7.1)).

Figure 2: The Effects of Other Drugs on Brexpiprazole Pharmacokinetics



The effects of Brexpiprazole (Rexulti) on the exposures of other drugs are summarized in Figure 3. **Figure 3: The Effects of Brexpiprazole (Rexulti) on Pharmacokinetics of Other Drugs**



3 NONCLINICAL TOXICOLOGY

3.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis
Lifetime carcinogenicity studies were conducted in B6C3F1 mice and SD rats. Brexpiprazole was administered orally for two years to male and female mice at doses of 0.75, 2, and 5 mg/kg/day (0.5, 1.5, and 3 times the oral MRPD of 1 mg/kg based on mg/m² body surface area) and to male and female rats at doses of 1, 3, and 10 mg/kg and 0, 10, and 30 mg/kg/day, respectively (2.4 to 24 and 7.2 to 72 times the oral MRPD, males and females). In female mice, the incidence of mammary gland adenocarcinoma was increased at all doses and the incidence of adenocarcinoma was increased at 2.4 and 6.1 times the MRPD. No increase in the incidence of tumors was observed in male mice. In the rat study, brexpiprazole was not carcinogenic at either sex at doses up to 72 times the MRPD. Proliferative and/or neoplastic changes in the mammary and pituitary glands of rodents have been observed following chronic administration of antipsychotic drugs and are considered to be product-mediated. The potential for increasing serum prolactin level of brexpiprazole was shown in both mice and rats. The relevance for human risk of the finding of prolactin-mediated endocrine tumors in rodents is unknown.

Mutagenesis
Brexpiprazole was not mutagenic when tested in the *in vitro* bacterial reverse mutation assay (Ames test). Brexpiprazole was negative for clastogenic activity in the *in vitro* micronucleus assay in rats, and was not genotoxic in the *in vitro* unscheduled DNA synthesis assay in rats, in a genotoxicity assay with mammalian cells. Brexpiprazole was clastogenic only at doses that induced cytotoxicity. Based on a weight of evidence, brexpiprazole is not considered to present a genotoxic risk to humans.

Impairment of Fertility
Female rats were treated with oral doses of 0.3, 1, or 10 mg/kg/day (0.3, 1, and 10 times the oral MRPD on a mg/m² basis) prior to mating with untreated males and continuing through conception and implantation. Estrus cycle irregularities and decreased fertility were observed at 1 and 10 mg/kg/day. Prolonged duration of pairing and increased preimplantation losses were observed at 10 mg/kg/day. Male rats were treated with oral doses of 0.3, 1, or 10 mg/kg/day (0.3, 1, and 10 times the oral MRPD on a mg/m² basis) for 60 days prior to mating with untreated females and throughout the 14 days of mating. No differences were observed in the duration of mating or fertility indices in males at any dose of brexpiprazole.

4 CLINICAL STUDIES

4.1 Adjunctive Treatment of Major Depressive Disorder

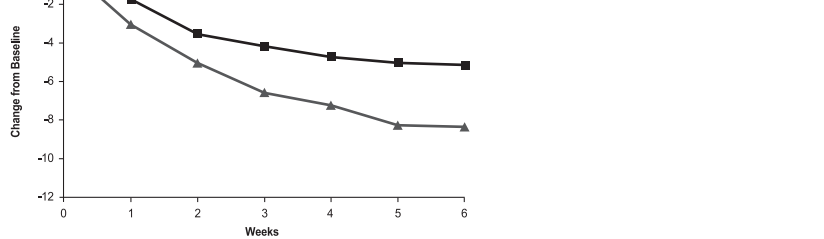
The efficacy of Brexpiprazole (Rexulti) in the adjunctive treatment of major depressive disorder (MDD) was evaluated in two 6-week, double-blind, placebo-controlled, fixed-dose trials of adult patients meeting DSM-IV-TR criteria for MDD, with or without symptoms of anxiety, who had an inadequate response to prior antidepressant therapy (1 to 3 courses) in the current episode and who had also demonstrated no adequate response throughout the 5 weeks of prospective antidepressant treatment with escitalopram, sertraline, paroxetine, citalopram, venlafaxine, duloxetine, desvenlafaxine, or vortioxetine extended-release, or bupropion. Brexpiprazole response during the prospective antidepressant treatment course was defined as having persistent symptoms throughout the course of treatment. Patients in Study 228 (Rexulti Study 1) were randomized to Brexpiprazole (Rexulti) 2 mg once a day or placebo. Patients in Study 227 (Rexulti Study 2) were randomized to Brexpiprazole (Rexulti) 3 or 4 mg once a day or placebo. For patients randomized to Brexpiprazole (Rexulti), all patients initiated treatment at 500 mg once daily during Week 1. At Week 2, the Brexpiprazole (Rexulti) dosage was increased to 1 mg in all treatment groups, and either maintained at 1 mg or increased to 2 mg or 3 mg once daily based on treatment assignment from Week 3 onwards. The dosages were then maintained for the 4 remaining weeks. The primary endpoint was change from baseline in the Montgomery-Åsberg Depression Rating Scale (MADRS), a 10-item clinician-rated scale used to assess the degree of depressive symptomatology, with 0 representing no symptoms, and 60 representing worst symptoms. At randomization, the mean MADRS total score was 27. At Week 1 and 2, Brexpiprazole (Rexulti) (bupropion-treated) 2 mg/day and 3 mg/day were superior to placebo (AOT) in reducing mean MADRS total scores. Results from the primary efficacy parameters for both fixed dose trials are shown below in Table 11. Figure 4 below shows the time course of response based on the primary efficacy measure (MADRS) in Study 1.

Table 11: Summary of Efficacy Results for Studies 1 and 2 for the Adjunctive Treatment of MDD

Study	Treatment Group	N	Primary Efficacy Measure: MADRS		
			Mean Baseline Score (SD)	LS Mean Change from Baseline (SE)	Placebo-subtracted Difference (95% CI)
1	Brexpiprazole (Rexulti) (2 mg/day) + ADT*	175	26.3 (2.7)	-4.4 (0.6)	-3.2 (-4.2, -1.0)
	Placebo + ADT	178	27.3 (3.6)	-2.2 (0.6)	
	Brexpiprazole (Rexulti) (1 mg/day) + ADT	213	27.4 (3.5)	-2.4 (0.5)	
	Brexpiprazole (Rexulti) (3 mg/day) + ADT	213	26.5 (3.2)	-3.3 (0.5)	-2.0 (-3.4, -0.3)
2	Placebo + ADT	203	26.5 (3.2)	-3.3 (0.5)	

SD: standard deviation; SE: standard error; LS Mean: least-squares mean; CI: unadjusted confidence interval.
* Dosages statistically significantly superior to placebo.
† Difference (drug minus placebo) in least-squares mean change from baseline.
An examination of population subgroups did not suggest differential response based on age, gender, race or choice of prospective antidepressant.

Figure 4: Change from Baseline in MADRS Total Score by Study Visit (Week) in Patients with MDD in Study 1



4.2 Schizophrenia

The efficacy of Brexpiprazole (Rexulti) in the treatment of adults with schizophrenia was demonstrated in two 6-week, randomized, double-blind, placebo-controlled, fixed-dose clinical trials in patients who met DSM-IV-TR criteria for schizophrenia. In both studies, Study 211 (Rexulti Study 1) and Study 208 (Rexulti Study 2), patients were randomized to Brexpiprazole (Rexulti) 2 or 4 mg once per day or placebo. Patients in the Brexpiprazole (Rexulti) groups initiated treatment at 1 mg once daily on Days 1 to 4. The Brexpiprazole (Rexulti) dosage was increased to 2 mg on Days 5 to 7. The dosage was then either maintained at 2 mg once daily or increased to 4 mg once daily, depending on treatment assignment, for the 5 remaining weeks. The primary efficacy endpoint of both trials was the change from baseline to Week 6 in the Positive and Negative Syndrome Scale (PANSS) total score. The PANSS is a 30-item scale that measures positive symptoms of schizophrenia (7 items), negative symptoms of schizophrenia (8 items), and general psychopathology (16 items), each rated on a scale of 1 (absent/best) to 7 (extreme), the total PANSS scores range from 30 (best) to 210 (worst). In Study 3, Brexpiprazole (Rexulti) at both 2 mg/day and 4 mg/day was superior to placebo on the PANSS total score. In Study 4, Brexpiprazole (Rexulti) 4 mg/day was superior to placebo on the PANSS total score (Table 12). Figure 5 shows the time course of response based on the primary efficacy measure (change from baseline in PANSS total score) in Study 3.

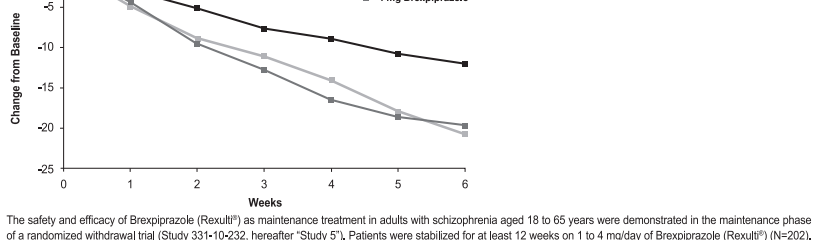
Examination of population subgroups based on age, gender and race did not suggest differential responsiveness.

Table 12: Summary of Efficacy Results for Studies in Schizophrenia

Study	Treatment Group	N	Primary Efficacy Measure: MADRS		
			Mean Baseline Score (SD)	LS Mean Change from Baseline (SE)	Placebo-subtracted Difference (95% CI)
3	Brexpiprazole (Rexulti) (2 mg/day)*	180	85.2 (13.8)	-20.7 (1.5)	-8.7 (-13.1, -4.4)
	Placebo	178	84.2 (12.1)	-13.2 (1.2)	
	Brexpiprazole (Rexulti) (4 mg/day)*	178	85.7 (11.5)	-12.0 (1.3)	-7.8 (-12.0, -3.7)
	Brexpiprazole (Rexulti) (2 mg/day)	179	86.3 (12.9)	-18.0 (1.5)	-1.1 (-7.2, 5.1)
4	Brexpiprazole (Rexulti) (4 mg/day)	183	85.0 (12.4)	-20.0 (1.3)	-8.1 (-12.6, -3.6)
	Placebo + ADT	180	84.2 (12.8)	-13.5 (1.5)	

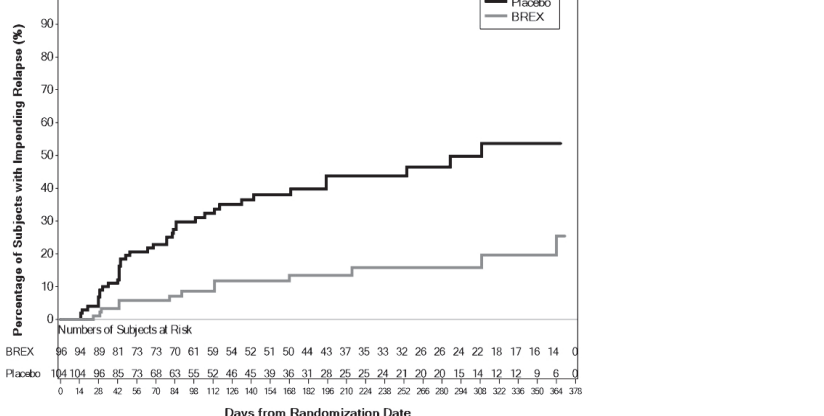
SD: standard deviation; SE: standard error; LS Mean: least-squares mean; CI: unadjusted confidence interval.
* Dosages statistically significantly superior to placebo.
† Difference (drug minus placebo) in least-squares mean change from baseline.

Figure 5: Change from Baseline in PANSS Total Score by Study Visit (Week) in Patients with Schizophrenia in Study 3



The safety and efficacy of Brexpiprazole (Rexulti) as maintenance treatment in adults with schizophrenia aged 18 to 65 years was demonstrated in the maintenance phase of a randomized withdrawal trial (Study 131-0202, hereinafter Study 5). Patients were stabilized for at least 12 weeks on 1 to 4 mg/day of Brexpiprazole (Rexulti) (N=100). They were then randomized in the double-blind treatment phase to either continue Brexpiprazole (Rexulti) at their achieved stable dose (N=97), or to switch to placebo (N=105). The primary endpoint in Study 5 was time from randomization to impending relapse during the double-blind phase, defined as: 1) OCS4 (movement score of 25 (minimally worse) and an increase to a score of 4 on PANSS conceptual disorganization, hallucinatory behavior, suspiciousness, or unusual thought content items, with either a 2-point increase on a specific item or 24-point increase on the combined four PANSS items, 2) hospitalization due to worsening of psychotic symptoms, 3) current suicidal behavior, or 4) voluntary discontinuation.

A pre-specified interim analysis demonstrated a statistically significant longer time to relapse in patients randomized to the Brexpiprazole (Rexulti) group compared to placebo-treated patients. This trial was subsequently terminated early because maintenance of efficacy had been demonstrated. The Kaplan-Meier curves of the cumulative proportion of patients with relapse during the double-blind treatment phase for Brexpiprazole (Rexulti) and placebo groups are shown in Figure 6. The secondary endpoint, the proportion of subjects who met the criteria for impending relapse, was statistically significantly lower in Brexpiprazole (Rexulti)-treated patients compared with placebo group. Figure 6: Kaplan-Meier Estimation of Percent Impending Relapse in Study 5



Note: A total of 202 subjects were randomized. Among them, one placebo subject did not take investigational medicinal product and one brexpiprazole subject did not have post-randomization efficacy evaluations. These two subjects were excluded from the efficacy analysis.

15 HOW SUPPLIED/STORAGE AND HANDLING

15.1 How Supplied

Brexpiprazole (Rexulti) tablets have markings on one side, and are available in the following strengths and package configurations (see Table 13):

Table 13: Brexpiprazole (Rexulti) Tablet Strengths and Package Configurations

Tablet Strength	Tablet Color/Shape	Tablet Markings	Pack Size
1 mg	Light yellow Round, shallow convex, beveled-edge	"BRX" and "1"	AluAlu blister of 30's
2 mg	Light green Round, shallow convex, beveled-edge	"BRX" and "2"	AluAlu blister of 30's
3 mg	Light purple Round, shallow convex, beveled-edge	"BRX" and "3"	AluAlu blister of 30's
4 mg	White Round, shallow convex, beveled-edge	"BRX" and "4"	AluAlu blister of 30's

15.2 Storage

Store at temperatures not exceeding 30°C.

16 PATIENT COUNSELING INFORMATION

Advise the patient to complete the FDA-approved patient labeling (Medication Guide).

Suicidal Thoughts and Behaviors

Advise patients and caregivers to look for the emergence of suicidality, especially early during treatment and when the dosage is adjusted up or down and instruct them to report such symptoms to the healthcare provider (see **Boxed Warning**, **Warnings and Precautions** (5.2)).

Dosage and Administration

Advise patients that Brexpiprazole (Rexulti) can be taken with or without food. Advise patients regarding importance of following dosage escalation instructions (see **Dosage and Administration** (2.1), (2.2)).

Neuroleptic Malignant Syndrome (NMS)

Counsel patients about a potentially fatal adverse reaction, Neuroleptic Malignant Syndrome (NMS) that has been reported in association with administration of antipsychotic drugs. Advise patients to contact a health care provider or report to the emergency room if they experience signs or symptoms of NMS (see **Warnings and Precautions** (5.4)).

Tardive Dyskinesia

Counsel patients on the signs and symptoms of tardive dyskinesia and to contact their health care provider if these abnormal movements occur (see **Warnings and Precautions** (5.5)).

Metabolic Changes

Educate patients about the risk of metabolic changes, how to recognize symptoms of hyperglycemia and diabetes mellitus, and to need for specific monitoring, including blood glucose, lipids, and weight (see **Warnings and Precautions** (5.6)).

Pathological Gambling and Other Compulsive Behaviors

Advise patients and their caregivers of the possibility that they may experience compulsive urges to shop, internet urges, and gamble, compulsive sexual urges, binge eating and/or other compulsive urges and the ability to control these urges while taking Brexpiprazole (Rexulti) in some cases, but not all, urges were reported to have subsided when the dose was reduced or stopped (see **Warnings and Precautions** (5.7)).

Leukopenia, Neutropenia and Agranulocytosis

Advise patients with a pre-existing low WBC or a history of drug-induced leukopenia/neutropenia that they should have their CBC monitored while taking Brexpiprazole (Rexulti) (see **Warnings and Precautions** (5.8)).

Orthostatic Hypotension and Syncope

Educate patients about the risk of orthostatic hypotension and syncope especially early in treatment, and also at times of reinitiating treatment or increases in dosage (see **Warnings and Precautions** (5.9)).

Heat Exposure and Dehydration

Counsel patients regarding appropriate care in avoiding overheating and dehydration (see **Warnings and Precautions** (5.12)).

Medication Use, Driving and Motor Performance

Counsel patients about performing activities requiring mental alertness, such as operating hazardous machinery or operating a motor vehicle, until they are reasonably certain that Brexpiprazole (Rexulti) therapy does not adversely affect their ability to engage in such activities (see **Warnings and Precautions** (5.10)).

Concomitant Medications

Advise patients to inform their health care providers of any changes to their current prescription or over-the-counter medications because there is a potential for clinically significant interactions (see **Drug Interactions** (7.1)).

Contraception

Advise patients that third trimester use of Brexpiprazole (Rexulti) may cause estradiol and/or withdrawal symptoms in a neonate and to notify their healthcare provider with a known or suspected pregnancy. Advise patients that there is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to Brexpiprazole (Rexulti) during pregnancy (see **Use in Specific Populations** (8.1)).

MEDICATION GUIDE

Brexpiprazole (Rexulti) (Rexulti-TE) Tablets

What is the most important information I should know about Brexpiprazole (Rexulti)?
Brexpiprazole (Rexulti) may cause serious side effects, including:
• Increased risk of death in elderly people with dementia-related psychosis. Medicines like Brexpiprazole (Rexulti) can raise the risk of death in elderly who have had touch with reality (psychosis) due to confusion and memory loss (dementia). Brexpiprazole (Rexulti) is not approved for the treatment of patients with dementia-related psychosis.
• Risk of suicidal thoughts or actions. Antidepressant medicines, depression and other serious mental illnesses, may cause suicidal thoughts or actions. Brexpiprazole (Rexulti) is not approved for the treatment of people younger than 18 years of age.
• Antidepressant medicines may increase suicidal thoughts or actions in some children, teenagers, or young adults within the first few months of treatment.
• Depression and other serious mental illnesses are the most important causes of suicidal thoughts or actions. Some people may have a particularly high risk of having suicidal thoughts or actions. These include people who have (or have a family history of) bipolar illness (also called manic-depressive illness) or suicidal thoughts or actions.
• How can I watch for and try to prevent suicidal thoughts and actions in myself or a family member?
• Pay close attention to any changes, especially sudden changes, in mood, behaviors, thoughts, or feelings. This is very important when an antidepressant medicine is started or when the dose is changed.
• Call the healthcare provider right away to report new or sudden changes in mood, behavior, thoughts, or feelings.
• Keep a list of people with the healthcare provider as scheduled. Call the healthcare provider between visits as needed, especially if you have concerns about symptoms.
• Call a healthcare provider right away if you or your family member has any of the following symptoms, especially if they are new, worse, or worry you:
• thoughts of suicide or death
• attempts to commit suicide
• new or worsening depression
• new or worsening anxiety
• feeling very agitated or restless
• trouble sleeping (insomnia)
• new or worsening irritability
• new or worsening anger
• acting aggressive, being angry, or violent
• other unusual changes in behavior or mood

What else do I need to know about antidepressant medicines?
• Never stop an antidepressant medicine without first talking with your healthcare provider. Stopping an antidepressant medicine suddenly can cause other symptoms.
• Antidepressant medicines used to treat depression and other illnesses. It is important to discuss all the risks of treating depression and also the risks of not treating it. Patients and their families or other caregivers should discuss all treatment choices with the healthcare provider, not just the use of antidepressants.
• Antidepressant medicines have other side effects. Talk to the healthcare provider about the possible side effects of the medicine prescribed for you or your family member.
• Antidepressant medicines can interact with other medicines. Know all of the medicines that you or your family member takes. Keep a list of all medicines (including prescription medicines, non-prescription medicines, vitamins and herbal supplements) to show the healthcare provider. Do not start new medicines without first checking with your healthcare provider.

What is Brexpiprazole (Rexulti)?
Brexpiprazole (Rexulti) is an atypical antipsychotic used to treat:
• Major depressive disorder (MDD). Brexpiprazole (Rexulti) is used with antidepressant medicines, when your healthcare provider determines that an antidepressant alone is not enough to treat your depression.
• Schizophrenia.

Who should not take Brexpiprazole (Rexulti)?
It is not known if Brexpiprazole (Rexulti) is safe and effective in people under 18 years of age.
Do not take Brexpiprazole (Rexulti) if you are allergic to brexpiprazole or any of the ingredients in Brexpiprazole (Rexulti). See the end of this Medication Guide for a complete list of ingredients in Brexpiprazole (Rexulti).

What should I tell my healthcare provider before taking Brexpiprazole (Rexulti)?
Before taking Brexpiprazole (Rexulti), tell your healthcare provider if you:
• have had diabetes or a family history of diabetes or high blood sugar. Your healthcare provider should check your blood sugar before you start Brexpiprazole (Rexulti) and during your treatment.
• have high levels of cholesterol, triglycerides, LDL-cholesterol, or low levels of HDL cholesterol
• have or had seizures (convulsions)
• have or had low or high blood pressure
• have or had heart problems or a stroke
• have or had low white blood cell count
• have increased levels of the hormone prolactin, or have a tumor in your pituitary gland
• are pregnant or plan to become pregnant. It is not known if Brexpiprazole (Rexulti) may harm your unborn baby. Using Brexpiprazole (Rexulti) in the last trimester of pregnancy may cause muscle movement problems, medicine withdrawal symptoms, or both of these in your newborn.
• If you become pregnant while taking Brexpiprazole (Rexulti), talk to your healthcare provider.
• are breastfeeding or plan to breastfeed. It is not known if Brexpiprazole (Rexulti) passes into your breast milk. You and your healthcare provider should decide if you will take Brexpiprazole (Rexulti) or breastfeed.

Tell your healthcare provider about all the medicines you take or recently have taken, including prescription medicines, over-the-counter medicines, vitamins and herbal supplements.
Brexpiprazole (Rexulti) and other medicines may affect each other causing possible serious side effects. Brexpiprazole (Rexulti) may affect the way other medicines work, and other medicines may affect how Brexpiprazole (Rexulti) works.
Your healthcare provider will tell you if it is safe to take Brexpiprazole (Rexulti) with your other medicines. Do not start or stop any medicines while taking Brexpiprazole (Rexulti) without talking to your healthcare provider first.
Know the medicines you take. Keep a list of your medicines to show your healthcare provider and pharmacist when you get a new medicine.

How should I take Brexpiprazole (Rexulti)?
• Take Brexpiprazole (Rexulti) exactly as your healthcare provider tells you to take it. Do not change the dose or stop taking Brexpiprazole (Rexulti) yourself.
• You should not stop taking Brexpiprazole (Rexulti) suddenly. If you stop taking Brexpiprazole (Rexulti) suddenly, you may have withdrawal symptoms.
• You should not miss a dose of Brexpiprazole (Rexulti). If you miss a dose, take the missed dose as soon as you remember. If you are close to your next dose, just skip the missed dose and take your next dose at your regular time. Do not take 2 doses of Brexpiprazole (Rexulti) at the same time. If you are not sure about your dosing, call your healthcare provider.
• If you take too much Brexpiprazole (Rexulti), call your healthcare provider right away, or go to the nearest hospital emergency room.
• What should I avoid while taking Brexpiprazole (Rexulti)?
• Do not drive a car, operate machinery, or do other dangerous activities until you know how Brexpiprazole (Rexulti) affects you. Brexpiprazole (Rexulti) may make you "feel drowsy."
• Avoid getting over-heated or dehydrated while taking Brexpiprazole (Rexulti).
• Do not over-exercise.
• Stay out of the heat. Do not wear too much or heavy clothing.
• If hot weather, stay inside in a cool place if possible.
• Drink plenty of water.

What are the possible side effects of Brexpiprazole (Rexulti)?
See "What is the most important information I should know about Brexpiprazole (Rexulti)?"
Brexpiprazole (Rexulti) may cause serious side effects, including:
• Stroke in elderly people (cardiovascular problems) that can lead to death.
• Increased levels of the hormone prolactin (hyperprolactinemia). Tell your healthcare provider right away if you have some or all of the following symptoms: high fever, stiff muscles, confusion, sweating, changes in pulse, heart rate, and blood pressure. These may be symptoms of a rare and serious condition that can lead to death. Call your healthcare provider right away if you have any of these symptoms.
• Uncontrolled body movements (tardive dyskinesia): Brexpiprazole (Rexulti) may cause movements that you cannot control in your face, tongue or other body parts. Tardive dyskinesia may not go away, even if you stop taking Brexpiprazole (Rexulti). Tardive dyskinesia may also start after you stop taking Brexpiprazole (Rexulti).
• Problems with swallowing (dysphagia) or difficulty swallowing (dysphagia): Brexpiprazole (Rexulti) may cause problems with your swallowing or difficulty swallowing. You may have trouble swallowing or difficulty swallowing. Tell your healthcare provider if you have any of these symptoms.
• High blood sugar (hyperglycemia): Increases in blood sugar can happen in some people who take Brexpiprazole (Rexulti). Extremely high blood sugar can lead to coma or death. If you have diabetes or risk factors for diabetes (such as being overweight or having a family history of diabetes), your healthcare provider should check your blood sugar before you start taking Brexpiprazole (Rexulti) and during your treatment.
• Call your healthcare provider if you have any of these symptoms of high blood sugar while taking Brexpiprazole (Rexulti):
• feel very thirsty
• feel weak or tired
• need to urinate more than usual
• feel confused, or your breath smells fruity

Decreased blood pressure (orthostatic hypotension). You may feel lightheaded or faint when you rise too quickly from a lying or sitting position.
• Seizures (convulsions).
• Problems controlling your body temperature so that you feel too warm. See "What should I avoid while taking Brexpiprazole (Rexulti)?"
• Higher amounts of prolactin in your blood. During blood tests, your doctor may find higher amounts of prolactin in your blood.
• The most common side effects of Brexpiprazole (Rexulti) include weight gain and an inner sense of restlessness such as feeling like you need to move. These are not the possible side effects of Brexpiprazole (Rexulti). For more information, ask your healthcare provider or pharmacist.
• Tell your doctor for medical advice about side effects. You may report side effects to FDA at www.fda.gov/oc or send it to medwatch@fda.hhs.gov.
• How should I store Brexpiprazole (Rexulti)?
• Store Brexpiprazole (Rexulti) at room temperature not exceeding 30°C.
• Do not store Brexpiprazole (Rexulti) in the bathroom.
• Keep Brexpiprazole (Rexulti) and all medicines out of the reach of children.
• General information about the safe and effective use of Brexpiprazole (Rexulti).

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use Brexpiprazole (Rexulti) for a condition for which it was not prescribed. Do not give Brexpiprazole (Rexulti) to other people, even if they have the same symptoms you have. It may harm them.

This Medication Guide summarizes the most important information about Brexpiprazole (Rexulti). If you need more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about Brexpiprazole (Rexulti) that is written for healthcare professionals.

What are the ingredients in Brexpiprazole (Rexulti)?
Active ingredient: brexpiprazole
Inactive ingredients: lactose monohydrate, corn starch, microcrystalline cellulose, hydroxypropyl cellulose, low substituted hydroxypropyl cellulose, magnesium stearate and purified water.

Caution:
Food, Drugs, Devices and Cosmetics Act prohibits dispensing without prescription.

For suspected adverse drug reaction, report to the FDA: www.fda.gov

FDA Registration No:
Brexpiprazole (Rexulti) 1 mg Film-Coated Tablet: DRXV48897
Brexpiprazole (Rexulti) 2 mg Film-Coated Tablet: DRXV48898
Brexpiprazole (Rexulti) 3 mg Film-Coated Tablet: DRXV48895
Brexpiprazole (Rexulti) 4 mg Film-Coated Tablet: DRXV48894

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