



- do **not take an MAOI within 2 weeks of stopping APLENZIN unless directed to do so by your healthcare provider.**

- do not start APLENZIN if you stopped taking an MAOI in the last 2 weeks unless directed to do so by your healthcare provider.**

- are allergic to the active ingredient in APLENZIN, bupropion, or to any of the inactive ingredients. See the end of this Medication Guide for a complete list of ingredients in APLENZIN.

**What should I tell my healthcare provider before taking APLENZIN?**

Tell your healthcare provider if you have ever had depression, suicidal thoughts or actions, or other mental health problems. You should also tell your healthcare provider about any symptoms you had during other times you tried to quit smoking, with or without APLENZIN. See “Quitting Smoking, Quit-Smoking Medications, Changes in Thinking and Behavior, Depression, and Suicidal Thoughts or Actions.”

- Tell your healthcare provider about your other medical conditions, including if you:**

- have liver problems, especially cirrhosis of the liver.
- have kidney problems.
- have, or have had, an eating disorder such as anorexia nervosa or bulimia.
- have had a head injury.
- have had a seizure (convulsion, fit).
- have a tumor in your nervous system (brain or spine).
- have had a heart attack, heart problems, or high blood pressure.

- are a diabetic taking insulin or other medicines to control your blood sugar.
- drink alcohol.
- abuse prescription medicines or street drugs.
- are pregnant or plan to become pregnant.
- are breastfeeding. APLENZIN passes into your milk in small amounts.

**Tell your healthcare provider about all the medicines you take, including prescription, over-the-counter medicines, vitamins, and herbal supplements.** Many medicines increase your chances of having seizures or other serious side effects if you take them while you are taking APLENZIN.

- trouble sleeping
- feeling anxious
- stuffy nose
- nausea

If you have trouble sleeping, do not take APLENZIN too close to bedtime.

Tell your healthcare provider right away about any side effects that bother you.

These are not all the possible side effects of APLENZIN. For more information, ask your healthcare provider or pharmacist.

- Pick a date to stop smoking that is during the second week you are taking APLENZIN.

- Take APLENZIN exactly as prescribed by your healthcare provider. Do not change your dose or stop taking APLENZIN without talking with your healthcare provider first.
- APLENZIN is usually taken for 7 to 12 weeks. Your healthcare provider may decide to prescribe APLENZIN for longer than 12 weeks to help you stop smoking. Follow your healthcare provider’s instructions.

- Swallow APLENZIN tablets whole. Do not chew, cut, or crush APLENZIN tablets.** If you do, the medicine will be released into your body too quickly. If this happens you may be more likely to get side effects including seizures. **Tell your healthcare provider if you cannot swallow tablets.**

- APLENZIN tablets may have an odor. This is normal.
- Take your doses of APLENZIN at least 8 hours apart.
- You may take APLENZIN with or without food.
- It is not dangerous to smoke and take APLENZIN at the same time. But, you will lower your chance of breaking your smoking habit if you smoke after the date you set to stop smoking.

- You may use APLENZIN and nicotine patches (a type of nicotine replacement therapy) at the same time, following the precautions below.
- You should only use APLENZIN and nicotine patches together under the care of your healthcare provider. Using APLENZIN and nicotine patches together may raise your blood pressure, and sometimes this can be severe.
- Tell your healthcare provider if you plan to use nicotine patches. Your healthcare provider should check your blood pressure regularly if you use nicotine patches with APLENZIN to help you quit smoking.

- If you miss a dose, do not take an extra dose to make up for the dose you missed. Wait and take your next dose at the regular time. **This is very important.** Too much APLENZIN can increase your chance of having a seizure.

- If you take too much APLENZIN, or overdose, call your local emergency room or poison control center right away.

**Do not take any other medicines while taking APLENZIN unless your healthcare provider has told you it is okay.**

**What should I avoid while taking APLENZIN?**

- Limit or avoid using alcohol during treatment with APLENZIN. If you usually drink a lot of alcohol, talk with your healthcare provider before suddenly stopping. If you suddenly stop drinking alcohol, you may increase your chance of having seizures.
- Do not drive a car or use heavy machinery until you know how APLENZIN affects you. APLENZIN can affect your ability to do these things safely.

**What are possible side effects of APLENZIN?**

APLENZIN can cause serious side effects. See the sections at the beginning of this Medication Guide for information about serious side effects of APLENZIN.

The most common side effects of APLENZIN include:

- trouble sleeping
- feeling anxious
- stuffy nose
- nausea
- constipation
- diizziness
- joint aches

If you have trouble sleeping, do not take APLENZIN too close to bedtime.

Tell your healthcare provider right away about any side effects that bother you.

These are not all the possible side effects of APLENZIN. For more information, ask your healthcare provider or pharmacist.

- Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

You may also report side effects to Valeant Pharmaceuticals North America LLC at 1-800-321-4576.

**How should I store APLENZIN?**

- Store APLENZIN at room temperature between 59°F and 86°F (15°C to 30°C).

**Keep APLENZIN and all medicines out of the reach of children.**

**General information about the safe and effective use of APLENZIN.**

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

If you take a urine drug screening test, APLENZIN may make the test result positive for amphetamines. If you tell the person giving you the drug screening test that you are taking APLENZIN, they can do a more specific drug screening test that should not have this problem.

This Medication Guide summarizes important information about APLENZIN. If you would like more information, talk with your healthcare provider. You can ask your healthcare provider or pharmacist for information about APLENZIN that is written for health professionals.

For more information about APLENZIN, go to www.APLENZIN.com or call 1-800-321-4576.

**What are the ingredients in APLENZIN?**

Active ingredient: bupropion hydrobromide

Inactive ingredients: ethylcellulose, glyceryl behenate, polyvinyl alcohol, polyethylene glycol, povidone, and dibutyl sebacate. Carnauba wax is included in the 174 mg and 348 mg strengths. The tablets are printed with edible black ink.

**Manufactured by:** Valeant Pharmaceuticals North America LLC Bridgewater, NJ 08807 USA

**By:** Valeant Pharmaceuticals International, Inc. Steinbach, MB R5G 1Z7, Canada

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**VALEANT**

You may also report side effects to Valeant Pharmaceuticals North America LLC at 1-800-321-4576.

**Musculoskeletal**

Leg cramps, fever/rhabdomyolysis, and muscle weakness.

**Nervous System**

Abnormal coordination, depersonalization, emotional lability, hyperkinesia, hypertonía, hyposthesia, vertigo, amnesia, ataxia, derealization, abnormal electroencephalogram (EEG), aggression, akinesia, aphasia, coma, dysarthria, dyskinesia, dystonia, euphoria, extrapyramidal syndrome, hypokinesia, increased libido, neuralgia, neuropathy, paranoid ideation, restlessness, suicide attempt, and unmasking tardive dyskinesia.

**Respiratory**

Bronchospasm and pneumonia.

**Skin**

Maculopapular rash, alopecia, angioedema, exfoliative dermatitis, and hirsutism.

**Special Senses**

Decreased visual acuity, abnormality, dry eye, deafness, increased intraocular pressure, angle-closure glaucoma, and mydriasis.

**Urogenital**

Impotence, polyuria, prostate disorder, abnormal ejaculation, cystitis, dyspareunia, dysuria, gynecoma, menopause, painful erection, salpingitis, urinary incontinence, urinary retention, and urinary tract infection.

**7 DRUG INTERACTIONS**

**7.1 Potential for Other Drugs to Affect APLENZIN**

Bupropion is primarily metabolized to hydroxybupropion by CYP2B6. Therefore, the potential exists for drug interactions between APLENZIN and drugs that are inhibitors or inducers of CYP2B6.

**Inhibitors of CYP2B6**

*Ticlopidine* and *Clopidogrel*: Concomitant treatment with these drugs can increase bupropion exposures but decrease hydroxybupropion exposure. Based on clinical response, dosage adjustments of APLENZIN may be necessary when administered with CYP2B6 inhibitors (e.g., ticlopidine or clopidogrel). *[See Clinical Pharmacology (12.3)].*

**Ritonavir**

*Ritonavir*, *Lopinavir*, and *Efavirenz*: Concomitant treatment with these drugs can decrease the bioavailability of bupropion and decrease bupropion exposure. *[See Clinical Pharmacology (12.3)].* If bupropion is used concomitantly with a CYP inducer, these drugs may increase the clearance of bupropion.

*Carbamazepine*, *Phenobarbital*, and *Phenytoin*: While not systematically studied, these drugs may induce metabolism of bupropion and decrease bupropion exposure. *[See Clinical Pharmacology (12.3)].* If bupropion is used concomitantly with a CYP inducer, these drugs may increase the clearance of bupropion.

**7.2 Potential for APLENZIN to Affect Other Drugs**

**Drugs Metabolized by CYP2D6**

Bupropion and its metabolites (erythrohydrobupropion, threo hydroxybupropion, hydroxybupropion) are CYP2D6 certain antidepressants. Therefore, coadministration of APLENZIN with drugs that are metabolized by CYP2D6 can increase the exposures of drugs that are substrates of CYP2D6. Such drugs include certain antipsychotics (e.g., venlafaxine, nortriptyline, imipramine, desipramine, paroxetine, fluoxetine, and sertraline), anticholinergics (e.g., haloperidol, risperidone, and thioridazine), beta-blockers (e.g., metoprolol), and Type 1C antiarrhythmics (e.g., propafenone, and flecainide). When used concomitantly with APLENZIN, it may be necessary to decrease the dose of these CYP2D6 substrates, particularly for drugs with a narrow therapeutic index.

Drugs that require metabolic activation by CYP2D6 to be effective (e.g., tamoxifen), theoretically require activation of APLENZIN to be administered. However, studies with CYP2D6 inhibitors as bupropion. Patients treated concomitantly with APLENZIN and such drugs may require increased doses of the drug. *[See Clinical Pharmacology (12.3)].*

**7.3 Drugs That Lower Seizure Threshold**

Use extreme caution when coadministering APLENZIN with other drugs that lower the seizure threshold (e.g., other bupropion products, antipsychotics, antidepressants, theophylline, or systemic corticosteroids). Use low initial doses of APLENZIN and increase the dose gradually. *[See Warnings and Precautions (5.3)].*

**7.4 Dopaminergic Drugs (Levodopa and Amantadine)**

Bupropion, levodopa, and amantadine have dopamine agonist effects. CNS toxicity has been reported when bupropion was coadministered with levodopa or amantadine. Adverse reactions have included restlessness, agitation, tremor, ataxia, gait disturbance, vertigo, and dizziness. It is recommended that the toxicity results from cumulative dopamine agonist effects. Use caution when administering APLENZIN concomitantly with these drugs.

**7.5 Use with Alcohol**

In postmarketing experience, there have been rare reports of adverse neuropsychiatric events or reduced alcohol tolerance in patients who were drinking alcohol during treatment with APLENZIN. The consumption of alcohol during treatment with APLENZIN should be minimized or avoided.

**7.6 MAOI Inhibitors**

APLENZIN is a substrate of the reuptake of dopamine and norepinephrine. Concomitant use of MAOIs and bupropion is contraindicated because there is an increased risk of hypertensive reactions if bupropion is used concomitantly with MAOIs. Studies in animals demonstrate that the acute toxicity of bupropion is enhanced by the MAOI inhibitor reserpine. Therefore, treatment with APLENZIN should be discontinued if an MAOI intended to treat depression and initiation of treatment with APLENZIN. Conversely, at least 14 days should be allowed after stopping APLENZIN before starting an MAOI antidepressant. *[See Dosage and Administration (2.8, 2.9) and Warnings and Precautions (5.3)].*

**7.7 Drug-Laboratory Test Interactions**

False-positive urine immunoassay screening tests for amphetamines have been reported in patients taking bupropion. This is due to lack of specificity of some screening tests. False-positive test results may result even following discontinuation of bupropion therapy. Confirmatory tests, such as gas chromatography/mass spectrometry, will distinguish bupropion from amphetamines.

**8 USE IN SPECIFIC POPULATIONS**

**8.1 Pregnancy**

**Pregnancy Category C**

**Risk Summary**

Data from epidemiological studies including pregnant women exposed to bupropion in the first trimester indicate no increased risk of congenital malformations. All pregnancies regardless of drug exposure have a background rate of 2% to 4% for major malformations and 15% to 20% for pregnancy loss. No clear evidence of teratogenic activity was found in reproductive developmental studies conducted in rats and rabbits. However, in rabbits, slightly increased incidences of fetal malformations and skeletal variations at doses approximately equivalent to the maximum recommended human dose (MRHD) and greater and increased fetal weights were seen at doses twice the MRHD and greater. APLENZIN should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

**Clinical Considerations**

Consider the risk of untreated depression when discontinuing or changing treatment with antidepressant medications during pregnancy and postpartum.

**Human Data**

Data from an international bupropion Pregnancy Registry (675 first-trimester exposures) and a retrospective cohort study using the United Healthcare database (1,213 first-trimester exposures) did not show an increased risk for malformations overall.

**10 OVERDOSE**

**10.1 Human Overdose Experience**

Overdoses of up to 30 grams or more of bupropion have been reported. Seizure was reported in approximately one third of all cases. Other serious reactions reported with overdoses of bupropion alone included hallucinations, loss of consciousness, sinus tachycardia, and ECG changes such as conduction disturbances or arrhythmias. Fever, muscle rigidity, rhabdomyolysis,

hypotension, stupor, coma, and respiratory failure have been reported mainly when bupropion was part of multiple drug overdoses.

Although most patients recovered without sequelae, deaths associated with overdoses of bupropion alone have been reported in patients ingesting large doses of drug. Multiple uncontrolled seizures, bradycardia, cardiac failure, and cardiac arrest prior to death were reported in these patients.

**10.2 Overdose Management**

Consult a Certified Poison Control Center for up-to-date guidance and advice. Telephone numbers for certified poison control centers are listed in the Physicians' Desk Reference (PDR). Call 1-800-222-1222 or refer to www.poisson.org.

There are no known antidotes for bupropion. In case of an overdose, provide supportive care, including close medical supervision and monitoring. Consider the possibility of multiple drug overdose.

**11 DESCRIPTION**

APLENZIN® (bupropion hydrobromide), an antidepressant of the aminoketone class, is chemically unrelated to tricyclic, tetracyclic, antidepressant, selective serotonin reuptake inhibitor, or other known antidepressant agents. Its structure closely resembles that of diltiazem, which is related to phenylethylamines. APLENZIN is metabolized and subsequently excreted by the kidneys. The elimination half-life of bupropion hydrobromide is 32.6 hours. The molecular formula is C<sub>12</sub>H<sub>16</sub>ClNO•HBr. Bupropion hydrobromide powder is white or almost white, crystalline, and soluble in water. It has a bitter taste and produces the sensation of local anesthesia on the oral mucosa. The structural formula is:

**Hepatic Impairment**

The effect of hepatic impairment on the pharmacokinetics of bupropion was characterized in 2 single-dose trials, one in subjects with alcoholic liver disease and one in subjects with mild to severe cirrhosis. The first trial demonstrated that the half-life of hydroxybupropion was significantly longer in 8 subjects with alcoholic liver disease than in 8 healthy volunteers (32±14 hours versus 21±5 hours, respectively). Although not statistically significant, the AUCs for bupropion and hydroxybupropion were more variable and tended to be greater (by 55% to 57%) in patients with alcoholic liver disease. The differences in half-life for bupropion and the other metabolites in the 2 groups were minimal.

APLENZIN tablets are supplied for oral administration as 174 mg, 348 mg, and 522 mg white to off-white extended-release tablets. Each tablet contains the labeled amount of bupropion hydrobromide and the inactive ingredients: ethylcellulose, glyceryl behenate, polyvinyl alcohol, polyethylene glycol, povidone, and dibutyl sebacate. Carnauba wax is included in the 174 mg and 348 mg strengths but not in the 522 mg strength. Edible black ink is used for printing the tablet identification code.

The insoluble shell of the extended-release tablet may remain intact during gastrointestinal transit and is eliminated in the feces.

**12 CLINICAL PHARMACOLOGY**

**12.1 Mechanism of Action**

The mechanism of action of bupropion is unknown, as is the case with other antidepressants. However, it is presumed that this action is mediated by norepinephrine and/or dopaminergic mechanisms. Bupropion is a relatively weak inhibitor of the neuronal uptake of norepinephrine and dopamine and does not inhibit monoamine oxidase or the reuptake of serotonin.

**12.2 Pharmacokinetics**

The efficacy and safety of the pharmacologic activity and pharmacokinetics of the individual enantiomers have not been studied.

**12.3 Pharmacokinetics**

The following chronic dosing of APLENZIN 348 mg once-daily tablets, the mean peak steady-state plasma concentration and area under the curve of bupropion were 1343 (±38.2) ng/mL and 1409 (±346) ng•hr/mL, respectively. Steady-state plasma concentrations of bupropion were reached within 8 days. The elimination half-life (t<sub>1/2</sub>) of bupropion after a single dose is 21.3 (±6.7) hours.

In a study comparing 10-day dosing with APLENZIN 348 mg once-daily and bupropion HCl extended-release 300 mg once-daily, following a 3-day titration with bupropion HCl extended-release 150 mg once-daily, patients treated with bupropion 300 mg per day and APLENZIN 348 mg per day demonstrated the efficacy of bupropion 300 mg per day as measured by the HAM-D total score. The HAM-D depressed mood item (item 1), and the Clinical Global Impressions Severity Scale (CGI-S). The second study included 2 fixed doses of bupropion (300 mg and 450 mg per day) and efficacy. This trial demonstrated the efficacy of bupropion for only the 450 mg dose. The placebo results were significant for the HAM-D total score and the CGI-S severity score, but not for HAM-Item 1. In the third study, outpatients were randomized to treatment with bupropion HCl extended-release 150 mg per day or APLENZIN 348 mg per day as measured by the HAM-D total score, the HAM-D item 1, the Montgomery-Åsberg Depression Rating Scale (MADRS), the CGI-S score, and the CGI-Improvement Scale (CGI-I) score.

A longer-term, placebo-controlled, randomized withdrawal trial demonstrated the efficacy of bupropion HCl sustained-release in the sustained-release treatment of MDD. The trial included 8-week open-label trial of bupropion 300 mg per day. Responders were randomized to continued treatment with bupropion 300 mg per day or placebo for 12 weeks. The relapse response during the open-label phase was defined as a CGI-Improvement Scale score of 1 (very much improved) or 2 (much improved) for each of the final 3 weeks. Relapse during the double-blind phase was defined as the investigator's judgment that drug treatment was needed for worsening depressive symptoms. Patients in the bupropion group experienced significantly lower relapse rates over the subsequent 44 weeks compared to those in the placebo group.

In a single dose study, two APLENZIN tablets 174 mg once-daily and one APLENZIN tablet 348 mg once-daily were evaluated. Equivalence was demonstrated for peak plasma concentration and area under the curve for bupropion and the 3 metabolites.

A multiple dose study compared 14-day dosing with APLENZIN tablets 522 mg once-daily to dosing with three APLENZIN tablets 174 mg once-daily, following a 3-day titration with one APLENZIN tablet 174 mg once-daily, and a succeeding 5-day titration with two APLENZIN tablets 174 mg once-daily. Equivalence was demonstrated for peak plasma concentration and area under the curve for bupropion and the 3 metabolites.

These findings demonstrate that APLENZIN tablets 174 mg, 348 mg, and 522 mg are dose proportional to female volunteers.

**8.7 Hepatic Impairment**

In patients with moderate to severe hepatic impairment (Child-Pugh score: 7 to 15), the maximum APLENZIN dose is 174 mg every other day. In patients with mild hepatic impairment (Child-Pugh score: 5 to 6), consider reducing the dose and/or frequency of dosing. *[See Dosage and Administration (2.6) and Clinical Pharmacology (12.3)].*

**9 DRUG ABUSE AND DEPENDENCE**

**9.1 Controlled Substance**

Bupropion is not a controlled substance.

**8.8 Abuse**

**Human Abuse**

Controlled clinical studies of bupropion HCl immediate-release conducted in normal volunteers, in subjects with a history of multiple drug abuse, and in depressed patients demonstrated an increase in motor activity and agitation/excitement.

In a population of individuals experienced with drugs of abuse, a single dose of 400 mg bupropion produced mild amphetamine-like activity as compared to placebo on the Monrope-Benzedrine Subscale of the Addiction Research Center Inventory (ARC). The peak level of effect was observed at 1.5 hours. The effect was similar to that of amphetamine. The peak level of effect was intermediate between placebo and amphetamine on the Likert Scale of the AKLI. These scales measure general feelings of euphoria and drug desirability.

Findings in clinical trials, however, are not known to reliably predict the abuse potential of drugs. Nonetheless, evidence from single-dose studies does suggest that the recommended daily dosage of bupropion when administered in divided doses is not likely to be significantly reinforcing to amphetamine or CNS stimulant abusers. However, higher doses (that could not be tested because of the risk of seizure) might be modestly attractive to those who abuse CNS stimulant drugs.

Bupropion hydrochloride extended-release tablets are intended for oral use only. The inhibition of crushed tablets or injection of dissolved bupropion has been reported. Seizures and/or cases of death have been reported when bupropion has been administered intranasally or by parenteral injection.

**Animals**

Studies in rodents and primates demonstrated that bupropion exhibits some pharmacologic actions common to psychostimulants. In rodents, it has been shown to increase locomotor activity, elicit a mild stereotyped behavioral response, and increase rates of responding in several schedule-controlled behavior paradigms. In primates, bupropion exhibits a positive reinforcing effects of psychotactic drugs, bupropion was self-administered intravenously. In rats, bupropion produced amphetamine-like and cocaine-like discriminative stimulus effects in drug discrimination paradigms used to characterize the subjective effects of psychotactic drugs.

**10 OVERDOSE**

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