

DIETHYLPROPION HYDROCHLORIDE ER- diethylpropion hydrochloride tablet, extended release

Preferred Pharmaceuticals, Inc.

Diethylpropion Hydrochloride Extended Release Tablets, 75 mg

CIV

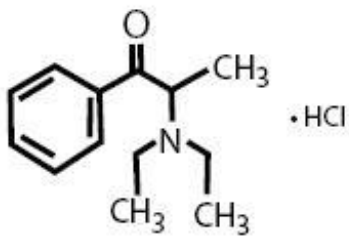
Rx only

DESCRIPTION

Diethylpropion Hydrochloride Extended Release Tablets, 75 mg are available for oral administration as extended release tablets containing 75 mg diethylpropion hydrochloride, USP. The inactive ingredients in each extended release tablet are: mannitol, carbomer homopolymer, tartaric acid, hydroxypropyl methylcellulose, povidone, and magnesium stearate.

Diethylpropion hydrochloride is a sympathomimetic agent. The chemical name for diethylpropion hydrochloride is 1-phenyl-2-diethyl-amino-1-propanone hydrochloride.

Its chemical structure is:



$C_{13}H_{19}NO \cdot HCl$

Molecular Weight: 241.76

In diethylpropion hydrochloride extended release tablets, 75 mg, diethylpropion hydrochloride is dispersed in a hydrophilic matrix. On exposure to water, the diethylpropion hydrochloride is released at a relatively uniform rate as a result of slow hydration of the matrix. The result is controlled release of the anorectic agent.

CLINICAL PHARMACOLOGY

Diethylpropion hydrochloride is a sympathomimetic amine with some pharmacologic activity similar to that of the prototype drugs of this class used in obesity, the amphetamines. Actions include some central nervous system stimulation and elevation of blood pressure. Tolerance has been demonstrated with all drugs of this class in which these phenomena have been looked for.

Drugs of this class used in obesity are commonly known as "anorectics" or "anorexigenics." It has not been established, however, that the action of such drugs in treating obesity is primarily one of appetite suppression. For example, other central nervous system actions or metabolic effects may be involved.

Adult obese subjects instructed in dietary management and treated with "anorectic" drugs lose more weight on the average than those treated with placebo and diet, as determined in relatively short-term clinical trials.

The magnitude of increased weight loss of drug-treated patients over placebo-treated patients averages some fraction of a pound a week. However, individual weight loss may vary substantially from patient to patient. The rate of weight loss is greatest in the first weeks of therapy for both drug and placebo

subjects and tends to decrease in succeeding weeks. The possible origins of the increased weight loss due to the various drug effects are not established. The amount of weight loss associated with the use of an "anorectic" drug varies from trial to trial, and the increased weight loss appears to be related in part to variables other than the drug prescribed, such as the physician/investigator relationship, the population treated, and the diet prescribed. Studies do not permit conclusions as to the relative importance of the drug and non-drug factors on weight loss.

The natural history of obesity is measured in years, whereas most studies cited are restricted to a few weeks duration; thus, the total impact of drug-induced weight loss over that of diet alone is unknown.

Diethylpropion is rapidly absorbed from the GI tract after oral administration and is extensively metabolized through a complex pathway of biotransformation involving N-dealkylation and reduction. Many of these metabolites are biologically active and may participate in the therapeutic action of diethylpropion hydrochloride extended release tablets, 75 mg. Due to the varying lipid solubilities of these metabolites, their circulating levels are affected by urinary pH. Diethylpropion and/or its active metabolites are believed to cross the blood-brain barrier and the placenta.

Diethylpropion and its metabolites are excreted mainly by the kidney. It has been reported that between 75-106% of the dose is recovered in the urine within 48 hours after dosing. Using a phosphorescence assay that is specific for basic compounds containing benzoyl group, the plasma half-life of the aminoketone metabolites is estimated to be between 4 to 6 hours.

The controlled-release characteristics of diethylpropion hydrochloride extended release tablets, 75 mg have been demonstrated by studies in humans in which plasma levels of diethylpropion-related materials were measured by phosphorescence analysis. Plasma levels obtained with the diethylpropion hydrochloride extended release tablets, 75 mg formulation administered once daily indicated a more gradual release than the immediate-release formulation (three 25 mg tablets given in a single dose).

Diethylpropion hydrochloride extended release tablets, 75 mg have not been shown superior in effectiveness to the same dosage of the immediate-release formulation (one 25 mg tablet three times daily). After administration of a single dose of diethylpropion hydrochloride extended release tablets, 75 mg (one 75 mg extended release tablet) or diethylpropion hydrochloride solution (75 mg dose) in a cross-over study using normal human subjects, the amount of parent compound and its active metabolites recovered in the urine within 48 hours for the two dosage forms were not statistically different.

INDICATIONS AND USAGE

Diethylpropion hydrochloride extended release tablets, 75 mg are indicated in the management of exogenous obesity as a short-term adjunct (a few weeks) in a regimen of weight reduction based on caloric restriction in patients with an initial body mass index (BMI) of 30 kg/m² or higher and who have not responded to appropriate weight reducing regimen (diet and/or exercise) alone. Below is a chart of BMI based on various heights and weights. BMI is calculated by taking the patient's weight, in kilograms (kg), divided by the patient's height, in meters (m), squared. Metric conversions are as follows: pounds divided by 2.2 = kg; inches x 0.0254 = meters.

Weight (pounds)	Body Mass Index (BMI), kg/m ²					
	Height (feet, inches)					
	5'0"	5'3"	5'6"	5'9"	6'0"	6'3"
140	27	25	23	21	19	18
150	29	27	24	22	20	19
160	31	28	26	24	22	20
170	33	30	28	25	23	21

180	35	32	29	27	25	23
190	37	34	31	28	26	24
200	39	36	32	30	27	25
210	41	37	34	31	29	26
220	43	39	36	33	30	28
230	45	41	37	34	31	29
240	47	43	39	36	33	30
250	49	44	40	37	34	31

The usefulness of agents of this class (See **CLINICAL PHARMACOLOGY**) should be measured against possible risk factors inherent in their use such as those described below. Diethylpropion hydrochloride extended release tablets, 75 mg are indicated for use as monotherapy only.

CONTRAINDICATIONS

Pulmonary hypertension, advanced arteriosclerosis, hyperthyroidism, known hypersensitivity or idiosyncrasy to the sympathomimetic amines, glaucoma, severe hypertension (See **PRECAUTIONS**).

Agitated states.

Patients with a history of drug abuse.

Use in combination with other anorectic agents is contraindicated.

During or within 14 days following the administration of monoamine oxidase inhibitors, hypertensive crises may result.

WARNINGS

Diethylpropion hydrochloride extended release tablets, 75 mg should not be used in combination with other anorectic agents, including prescribed drugs, over-the-counter preparations, and herbal products.

In a case-control epidemiological study, the use of anorectic agents, including diethylpropion, was associated with an increased risk of developing pulmonary hypertension, a rare, but often fatal disorder. The use of anorectic agents for longer than 3 months was associated with a 23-fold increase in the risk of developing pulmonary hypertension. Increased risk of pulmonary hypertension with repeated courses of therapy cannot be excluded.

The onset or aggravation of exertional dyspnea, or unexplained symptoms of angina pectoris, syncope, or lower extremity edema suggest the possibility of occurrence of pulmonary hypertension. Under these circumstances, diethylpropion hydrochloride extended release tablets, 75 mg should be immediately discontinued, and the patient should be evaluated for the possible presence of pulmonary hypertension.

Valvular heart disease associated with the use of some anorectic agents such as fenfluramine and dexfenfluramine has been reported. Possible contributing factors include use for extended periods of time, higher than recommended dose, and/or use in combination with other anorectic drugs. Valvulopathy has been very rarely reported with diethylpropion hydrochloride extended release tablets, 75 mg monotherapy, but the causal relationship remains uncertain. The potential risk of possible serious adverse effects such as valvular heart disease and pulmonary hypertension should be assessed carefully against the potential benefit of weight loss. Baseline cardiac evaluation should be considered to detect preexisting valvular heart diseases or pulmonary hypertension prior to initiation of diethylpropion hydrochloride extended release tablets, 75 mg treatment. Diethylpropion hydrochloride extended release tablets, 75 mg are not recommended in patients with known heart murmur or valvular heart disease. Echocardiogram during and after treatment could be useful for detecting any valvular disorders which may occur.

To limit unwarranted exposure and risks, treatment with diethylpropion hydrochloride extended release tablets, 75 mg should be continued only if the patient has satisfactory weight loss within the first 4 weeks of treatment (e.g., weight loss of at least 4 pounds, or as determined by the physician and patient).

Diethylpropion hydrochloride extended release tablets, 75 mg are not recommended for patients who used any anorectic agents within the prior year.

If tolerance develops, the recommended dose should not be exceeded in an attempt to increase the effect; rather, the drug should be discontinued. Diethylpropion hydrochloride extended release tablets, 75 mg may impair the ability of the patient to engage in potentially hazardous activities such as operating machinery or driving a motor vehicle; the patient should therefore be cautioned accordingly.

Prolonged use of diethylpropion hydrochloride may induce dependence with withdrawal syndrome on cessation of therapy. Hallucinations have occurred rarely following high doses of the drug. Several cases of toxic psychosis have been reported following the excessive use of the drug and some have been reported in which the recommended dose appears not to have been exceeded. Psychosis abated after the drug was discontinued. When central nervous system active agents are used, consideration must always be given to the possibility of adverse interactions with alcohol.

PRECAUTIONS

General

Caution is to be exercised in prescribing diethylpropion hydrochloride extended release tablets, 75 mg for patients with hypertension or with symptomatic cardiovascular disease, including arrhythmias. Diethylpropion hydrochloride extended release tablets, 75 mg should not be administered to patients with severe hypertension.

Reports suggest that diethylpropion hydrochloride may increase convulsions in some epileptics. Therefore, epileptics receiving diethylpropion hydrochloride extended release tablets, 75 mg should be carefully monitored. Titration of dose or discontinuance of diethylpropion hydrochloride extended release tablets, 75 mg may be necessary.

The least amount feasible should be prescribed or dispensed at one time in order to minimize the possibility of overdose.

Information for Patient

The patient should be cautioned about concomitant use of alcohol or other CNS-active drugs and diethylpropion hydrochloride extended release tablets, 75 mg (See **WARNINGS**). The patient should be advised to observe caution when driving or engaging in any potentially hazardous activity.

Laboratory Tests

None

Drug Interactions

Because diethylpropion hydrochloride extended release tablets, 75 mg are monoamines, hypertension may result when either agent is used with monoamine oxidase (MAO) inhibitors (See **CONTRAINDICATIONS**).

Efficacy of diethylpropion with other anorectic agents has not been studied and the combined use may have the potential for serious cardiac problems; therefore, the concomitant use with other anorectic agents is contraindicated.

Antidiabetic drug requirements (i.e., insulin) may be altered. Concurrent use with general anesthetics may result in arrhythmias. The pressor effects of diethylpropion and those of other drugs may be additive when the drugs are used concomitantly; conversely, diethylpropion may interfere with

antihypertensive drugs (i.e., guanethidine, α -methyldopa). Concurrent use of phenothiazines may antagonize the anorectic effect of diethylpropion.

Carcinogenesis, Mutagenesis, and Impairment of Fertility

No long-term animal studies have been done to evaluate diethylpropion hydrochloride for carcinogenicity. Mutagenicity studies have not been conducted. Animal reproduction studies have revealed no evidence of impairment of fertility (See **Pregnancy**).

Pregnancy

Teratogenic Effects: Pregnancy Category B. Reproduction studies have been performed in rats at doses up to 1.6 times the human dose (based on mg/m^2) and have revealed no evidence of impaired fertility or harm to the fetus due to diethylpropion hydrochloride. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed. Spontaneous reports of congenital malformations have been recorded in humans, but no causal relationship to diethylpropion has been established.

Non-Teratogenic Effects. Abuse with diethylpropion hydrochloride during pregnancy may result in withdrawal symptoms in the human neonate.

Nursing Mothers

Since diethylpropion hydrochloride and/or its metabolites have been shown to be excreted in human milk, caution should be exercised when diethylpropion hydrochloride extended release tablets, 75 mg are administered to a nursing woman.

Geriatric Use

Clinical studies of diethylpropion hydrochloride extended release tablets, 75 mg did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects.

Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

This drug is known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function.

Pediatric Use

Since safety and effectiveness in pediatric patients below the age of 16 have not been established, diethylpropion hydrochloride extended release tablets, 75 mg is *not* recommended for use in pediatric patients 16 years of age and under.

ADVERSE REACTIONS

Cardiovascular: Precordial pain, arrhythmia (including ventricular), ECG changes, tachycardia, elevation of blood pressure, palpitation and rare reports of pulmonary hypertension. Valvular heart disease associated with the use of some anorectic agents such as fenfluramine and dexfenfluramine, both independently and especially when used in combination, have been reported. Valvulopathy has been very rarely reported with diethylpropion hydrochloride extended release tablets, 75 mg monotherapy, but the causal relationship remains uncertain.

Central Nervous System: In a few epileptics an increase in convulsive episodes has been reported; rarely psychotic episodes at recommended doses; dyskinesia, blurred vision, overstimulation, nervousness, restlessness, dizziness, jitteriness, insomnia, anxiety, euphoria, depression, dysphoria, tremor, mydriasis, drowsiness, malaise, headache, and cerebrovascular accident

Gastrointestinal: Vomiting, diarrhea, abdominal discomfort, dryness of the mouth, unpleasant taste, nausea, constipation, other gastrointestinal disturbances

Allergic: Urticaria, rash, ecchymosis, erythema

Endocrine: Impotence, changes in libido, gynecomastia, menstrual upset

Hematopoietic System: Bone marrow depression, agranulocytosis, leukopenia

Miscellaneous: A variety of miscellaneous adverse reactions has been reported by physicians. These include complaints such as dysuria, dyspnea, hair loss, muscle pain, increased sweating, and polyuria.

DRUG ABUSE AND DEPENDENCE

Diethylpropion hydrochloride extended release tablets, 75 mg are schedule IV controlled substances. Diethylpropion hydrochloride has some chemical and pharmacologic similarities to the amphetamines and other related stimulant drugs that have been extensively abused. There have been reports of subjects becoming psychologically dependent on diethylpropion. The possibility of abuse should be kept in mind when evaluating the desirability of including a drug as part of a weight reduction program. Abuse of amphetamines and related drugs may be associated with varying degrees of psychologic dependence and social dysfunction which, in the case of certain drugs, may be severe. There are reports of patients who have increased the dosage to many times that recommended. Abrupt cessation following prolonged high dosage administration results in extreme fatigue and mental depression; changes are also noted on the sleep EEG. Manifestations of chronic intoxication with anorectic drugs include severe dermatoses, marked insomnia, irritability, hyperactivity, and personality changes. The most severe manifestation of chronic intoxication is psychosis, often clinically indistinguishable from schizophrenia.

OVERDOSAGE

Manifestations of acute overdosage include restlessness, tremor, hyperreflexia, rapid respiration, confusion, assaultiveness, hallucinations, panic states, and mydriasis. Fatigue and depression usually follow the central stimulation.

Cardiovascular effects include tachycardia, arrhythmias, hypertension or hypotension and circulatory collapse. Gastrointestinal symptoms include nausea, vomiting, diarrhea, and abdominal cramps. Overdose of pharmacologically similar compounds has resulted in convulsions, coma and death.

The reported oral LD₅₀ for mice is 600 mg/kg, for rats is 250 mg/kg and for dogs is 225 mg/kg.

Management of acute diethylpropion hydrochloride intoxication is largely symptomatic and includes lavage and sedation with a barbiturate. Experience with hemodialysis or peritoneal dialysis is inadequate to permit recommendation in this regard. Intravenous phentolamine has been suggested on pharmacologic grounds for possible acute, severe hypertension, if this complicates diethylpropion hydrochloride extended release tablets, 75 mg overdosage.

DOSAGE AND ADMINISTRATION

Diethylpropion Hydrochloride Extended Release Tablets, 75 mg:

One extended-release 75 mg tablet daily, swallowed whole, in midmorning.

Geriatric use

This drug is known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug

may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function (See **PRECAUTIONS, Geriatric Use**).

HOW SUPPLIED

Diethylpropion Hydrochloride Extended Release Tablets, 75 mg are supplied in bottles of;

Bottle of 14 - 68788-9423-1

Bottle of 20 - 68788-9423-2

Bottle of 30 - 68788-9423-3

Bottle of 60 - 68788-9423-6

Each white to off-white capsule-shaped tablet is debossed "LCI" on one side and "1477" on the other side.

Store at 20 to 25°C (68 to 77°F) [See USP Controlled Room Temperature].

Keep tightly closed and protect from excessive heat.

Distributed by:

Lannett Company, Inc.
Philadelphia, PA 19154

CIB70603C

Rev. 07/17

Repackaged By: Preferred Pharmaceuticals Inc.

PRINCIPAL DISPLAY PANEL

NDC 68788-9423

**Diethylpropion Hydrochloride
Extended Release Tablets**

CIV

75 mg

Rx Only

Lannett

Repackaged By: Preferred Pharmaceuticals Inc.

Diethylpropion HCl Extended

Release Tablets 75mg (CIV)

Generic for: Tenuate Dospan
Each extended-release tablet contains:
Diethylpropion HCl, 75mg

Pkg Size: Exp Date:

Lot#:

Batch#:

Ins:

Mfg: Lannett Co. Inc., Philadelphia, PA

Prod#:

Warning

Store at 20°-25°C (68°-77°F). See USP Controlled Room Temperature. N3. Only keep this and all medication out of the reach of children. Tablet is capsule shaped, white and imprinted with LCI/1477



Directions English

Use as directed by your doctor
Take _____ Tablet(s) _____ time(s) a day



Instrucciones Español:

Uso según lo dirigido por su doctor
Cada _____ Tableta(s) _____ vece(s) al día

Diethylpropion HCl Extended

Release Tablets 75mg (CIV)

Qty: Ins:

Lot#: Bat#:

Prod# (NDC):

Diethylpropion HCl Extended

Release Tablets 75mg (CIV)

Qty: Ins:

Lot#: Bat#:

Prod# (NDC):

Diethylpropion HCl Extended

Release Tablets 75mg (CIV)

Qty: Ins:

Insurance NDC:

Lot#: Bat#:

Diethylpropion HCl Extended

Release Tablets 75mg (CIV)

Qty: Ins:

Lot#: Bat#:

Prod# (NDC):

Log

Chart

Billing

Patient

DIETHYLPROPION HYDROCHLORIDE ER

diethylpropion hydrochloride tablet, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68788-9423(NDC:0527-1477)
Route of Administration	ORAL	DEA Schedule	CIV

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
DIETHYLPROPION HYDROCHLORIDE (UNII: 19V2PL39NG) (DIETHYLPROPION - UNII:Q94YYU22B8)	DIETHYLPROPION HYDROCHLORIDE	75 mg

Inactive Ingredients

Ingredient Name	Strength
MANNITOL (UNII: 3OWL53L36A)	
CARBOMER HOMOPOLYMER TYPE A (ALLYL PENTAERYTHRITOL CROSSLINKED) (UNII: F68VH75CJC)	
TARTARIC ACID (UNII: W4888119H)	
HYPROMELLOSE ACETATE SUCCINATE 06081224 (3 MM2/S) (UNII: 6N003M473W)	
POVIDONE K30 (UNII: U725QWY32X)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	

Product Characteristics

Color	WHITE	Score	no score
Shape	OVAL	Size	19 mm
Flavor		Imprint Code	LCI;1477
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
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1	NDC:68788-9423-1	14 in 1 BOTTLE; Type 0: Not a Combination Product	04/29/2014	
2	NDC:68788-9423-2	20 in 1 BOTTLE; Type 0: Not a Combination Product	04/29/2014	
3	NDC:68788-9423-3	30 in 1 BOTTLE; Type 0: Not a Combination Product	04/29/2014	
4	NDC:68788-9423-6	60 in 1 BOTTLE; Type 0: Not a Combination Product	04/29/2014	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA091680	04/29/2014	

Labeler - Preferred Pharmaceuticals, Inc. (791119022)

Registrant - Preferred Pharmaceuticals, Inc. (791119022)

Establishment

Name	Address	ID/FEI	Business Operations
Preferred Pharmaceuticals, Inc.		791119022	REPACK(68788-9423)

Revised: 5/2020

Preferred Pharmaceuticals, Inc.