DOXERCALCIFEROL- doxercalciferol injection Hikma Pharmaceuticals USA Inc.

DOXERCALCIFEROL INJECTION

Rx only

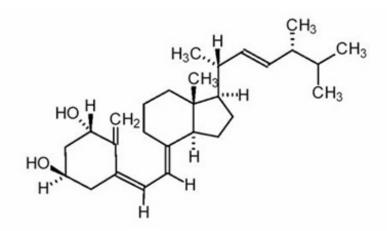
DESCRIPTION

Doxercalciferol, the active ingredient in Doxercalciferol Injection, is a synthetic vitamin D_2 analog that undergoes metabolic activation *in vivo* to form 1a,25-dihydroxyvitamin D_2 (1a,25-(OH)₂ D_2), a naturally occurring, biologically active form of vitamin D_2 . Doxercalciferol injection is available as a sterile, clear, colorless aqueous solution for intravenous injection.

Doxercalciferol single-use injection is supplied in a 2 mL amber glass ampul containing 4 mcg/2 mL or 2 mcg/mL. Each milliliter (mL) of solution contains doxercalciferol, 2 mcg; Polysorbate 20, 4 mg; sodium chloride, 1.5 mg; sodium ascorbate, 10 mg; sodium phosphate, dibasic, anhydrous 7.6 mg; sodium dihydrogen phosphate, dihydrate, 2.34 mg; and disodium edetate, 1.1 mg.

Doxercalciferol is a colorless crystalline compound with a calculated molecular weight of 412.66 and a molecular formula of $C_{28}H_{44}O_2$. It is soluble in oils and organic solvents, but is relatively insoluble in water. Chemically, doxercalciferol is (1 α ,3 β ,5Z,7E,22E)-9,10-secoergosta-5,7,10(19),22-tetraene-1,3-diol and has the structural formula presented in Figure 1.

Figure 1: Chemical Structure of Doxercalciferol



Other names frequently used for doxercalciferol are 1α -hydroxyvitamin D₂, 1α -OH-D₂, and 1α -hydroxyergocalciferol.

CLINICAL PHARMACOLOGY

Vitamin D levels in humans depend on two sources: (1) exposure to the ultraviolet rays of the sun for conversion of 7-dehydrocholesterol in the skin to vitamin D_3 (cholecalciferol) and (2) dietary intake of either vitamin D_2 (ergocalciferol) or vitamin D_3 . Vitamin D_2 and vitamin D_3 must be metabolically activated in the liver and kidney before becoming fully active on target tissues. The initial step in the activation process is the introduction of a hydroxyl group in the side chain at C-25 by the hepatic enzyme, CYP 27 (a vitamin D-25-hydroxylase). The products of this reaction are 25-(OH)D₂ and 25-

(OH)D₃, respectively. Further hydroxylation of these metabolites occurs in the mitochondria of kidney tissue, catalyzed by renal 25-hydroxyvitamin D-1- α -hydroxylase to produce 1 α ,25-(OH)₂D₂, the primary biologically active form of vitamin D₂, and 1 α ,25-(OH)₂D₃ (calcitriol), the biologically active form of vitamin D₃.

Mechanism of Action

Calcitriol $(1\alpha, 25-(OH)_2D_3)$ and $1\alpha, 25-(OH)_2D_2$ regulate blood calcium at levels required for essential body functions. Specifically, the biologically active vitamin D metabolites control the intestinal absorption of dietary calcium, the tubular reabsorption of calcium by the kidney and, in conjunction with parathyroid hormone (PTH), the mobilization of calcium from the skeleton. They act directly on bone cells (osteoblasts) to stimulate skeletal growth, and on the parathyroid glands to suppress PTH synthesis and secretion. These functions are mediated by the interaction of these biologically active metabolites with specific receptor proteins in the various target tissues. In uremic patients, deficient production of biologically active vitamin D metabolites (due to lack of or insufficient 25-hydroxyvitamin D-1-alpha-hydroxylase activity) leads to secondary hyperparathyroidism, which contributes to the development of metabolic bone disease in patients with renal failure.

Pharmacokinetics and Metabolism

After intravenous administration, doxercalciferol is activated by CYP 27 in the liver to form 1α , 25-(OH)₂D₂ (major metabolite) and 1α , 24-dihydroxyvitamin D₂ (minor metabolite). Activation of doxercalciferol does not require the involvement of the kidneys.

Peak blood levels of 1α ,25-(OH)₂D₂ are reached at 8 +/- 5.9 hours (mean +/- SD) after a single intravenous dose of 5 mcg of doxercalciferol. The mean elimination half-life of 1α ,25-(OH)₂D₂ after an oral dose is approximately 32 to 37 hours with a range of up to 96 hours. The mean elimination half-life in patients with end stage renal disease (ESRD) and in healthy volunteers appears to be similar following an oral dose. Hemodialysis causes a temporary increase in 1α ,25-(OH)₂D₂ mean concentrations presumably due to volume contraction. 1α ,25-(OH)₂D₂ is not removed from blood during hemodialysis.

Clinical Studies

The safety and effectiveness of doxercalciferol injection were evaluated in two open-label, single-arm, multi-centered clinical studies (Study C and Study D) in a total of 70 patients with chronic kidney disease on hemodialysis (Stage 5 CKD). Patients in Study C were an average age of 54 years (range: 23 to 73), were 50% male, and were 61% African-American, 25% Caucasian, and 14% Hispanic, and had been on hemodialysis for an average of 65 months. Patients in Study D were an average age of 51 years (range: 28 to 76), were 48% male, and 100% African-American and had been on hemodialysis for an average of 61 months. This group of 70 of the 138 patients who had been treated with doxercalciferol capsules in prior clinical studies (Study A and Study B) received doxercalciferol injection in an openlabel fashion for 12 weeks following an 8-week washout (control) period. Dosing of doxercalciferol injection was initiated at the rate of 4 mcg administered at the end of each dialysis session (3 times weekly) for a total of 12 mcg per week. The dosage of doxercalciferol was adjusted in an attempt to achieve iPTH levels within a targeted range of 150 to 300 pg/mL. The dosage was increased by 2 mcg per dialysis session after 8 weeks of treatment if the iPTH levels remained above 300 pg/mL and were greater than 50% of baseline levels. The maximum dosage was limited to 18 mcg per week. If at any time during the trial iPTH fell below 150 pg/mL, doxercalciferol injection was immediately suspended and restarted at a lower dosage the following week.

Results

Fifty-two of the 70 patients who were treated with doxercalciferol injection achieved iPTH levels \leq 300 pg/mL. Forty-one of these patients exhibited plasma iPTH levels \leq 300 pg/mL on at least three occasions. Thirty-six patients had plasma iPTH levels < 150 pg/mL on at least one occasion during

study participation.

Mean weekly doses in Study C ranged from 8.9 mcg to 12.5 mcg. In Study D, the mean weekly doses ranged from 9.1 mcg to 11.6 mcg.

Decreases in plasma iPTH from baseline values were calculated using as baseline the average of the last three values obtained during the 8-week washout period and are displayed in the table below. Plasma iPTH levels were measured weekly during the 12-week study.

	0				
iPTH Level	Study C	Study D	Combined Protocols		
IPI II Level	(n = 28)	(n = 42)	(n = 70)		
Baseline (Mean	of Weeks -2	2, -1 and 0)			
Mean (SE)	698 (60)	762 (65)	736 (46)		
Median	562	648	634		
On-treatment (Week 12 [*])					
Mean (SE)	406 (63)	426 (60)	418 (43)		
Median	311	292	292		
Change from Baseline [†]					
Mean (SE)	-292 (55)	-336 (41)	-318 (33)		
Median	-274	-315	-304		
P-value [‡]	0.004	0.001	< 0.001		

Table 1: iPTH Summary Data for Patients Receiving
Doxercalciferol Injection

* Values were carried forward for the two patients on study for 10 weeks

[†] Treatment iPTH minus baseline iPTH

[‡] Wilcoxon one-sample test

In both studies, iPTH levels increased progressively and significantly in 62.9% of patients during the 8-week washout (control) period during which no vitamin D derivatives were administered. In contrast, doxercalciferol injection treatment resulted in a clinically significant reduction (at least 30%) from baseline in mean iPTH levels during the 12-week open-label treatment period in more than 92% of the 70 treated patients.

Table 2 shows the numbers of patients who achieved iPTH levels below 300 pg/mL on one, two, or three or more non-consecutive occasions during the 12-week treatment period. Thirty-seven of 70 patients (53%) had plasma iPTH levels within the targeted range (150 to 300 pg/mL) during Weeks 10 to 12.

Table 2: Number of Times iPTH ≤ 300 pg/mL

	1	2	≥3
Study C	3/28	0/28	16/28
Study D	4/42	4/42	25/42

INDICATIONS AND USAGE

Doxercalciferol injection is indicated for the treatment of secondary hyperparathyroidism in patients with chronic kidney disease on dialysis.

CONTRAINDICATIONS

Doxercalciferol injection should not be given to patients with a tendency towards hypercalcemia or current evidence of vitamin D toxicity.

Doxercalciferol injection is contraindicated in patients with previous hypersensitivity to doxercalciferol or any of its ingredients (see **WARNINGS** and **ADVERSE REACTIONS**).

WARNINGS

Overdosage of any form of vitamin D, including doxercalciferol injection is dangerous (see **OVERDOSAGE**). Progressive hypercalcemia due to overdosage of vitamin D and its metabolites may be so severe as to require emergency attention. Acute hypercalcemia may exacerbate tendencies for cardiac arrhythmias and seizures and may potentiate the action of digitalis drugs. Chronic hypercalcemia can lead to generalized vascular calcification and other soft-tissue calcification. The serum calcium times serum phosphorus (Ca X P) product should be maintained at < 55 mg²/dL² in patients with chronic kidney disease. Radiographic evaluation of suspect anatomical regions may be useful in the early detection of this condition.

Since doxercalciferol is a precursor for 1α ,25-(OH)₂D₂, a potent metabolite of vitamin D₂, pharmacologic doses of vitamin D and its derivatives should be withheld during doxercalciferol injection treatment to avoid possible additive effects and hypercalcemia.

Oral calcium-based or other non-aluminum-containing phosphate binders and a low phosphate diet should be used to control serum phosphorus levels in patients undergoing dialysis. Uncontrolled serum phosphorus exacerbates secondary hyperparathyroidism and can lessen the effectiveness of doxercalciferol injection in reducing blood PTH levels. If hypercalcemia occurs after initiating doxercalciferol injection therapy, the dose of doxercalciferol injection and/or calcium-containing phosphate binders should be decreased. If hyperphosphatemia occurs after initiating doxercalciferol injection, the dose of doxercalciferol injection should be decreased and/or the dose of phosphate binders increased. (See dosing recommendations for doxercalciferol injection under **DOSAGE AND ADMINISTRATION**.)

Magnesium-containing antacids and doxercalciferol injection should not be used concomitantly in patients on chronic renal dialysis because such use may lead to the development of hypermagnesemia.

Serious hypersensitivity reactions, including fatal outcome, have been reported post marketing in patients on hemodialysis following administration of doxercalciferol injection. Hypersensitivity reactions include anaphylaxis with symptoms of angioedema (involving face, lips, tongue and airways), hypotension, unresponsiveness, chest discomfort, shortness of breath, and cardiopulmonary arrest. These reactions may occur separately or together.

Monitor patients receiving doxercalciferol injection upon initiation of treatment for hypersensitivity reactions. Should a hypersensitivity reaction occur, discontinue doxercalciferol, monitor and treat if indicated (see **CONTRAINDICATIONS**).

PRECAUTIONS

General

The principal adverse effects of treatment with doxercalciferol injection are hypercalcemia, hyperphosphatemia, and oversuppression of PTH (iPTH less than 150 pg/mL). Prolonged hypercalcemia can lead to calcification of soft tissues, including the heart and arteries, and hyperphosphatemia can exacerbate hyperparathyroidism. Oversuppression of PTH may lead to adynamic bone syndrome. All of these potential adverse effects should be managed by regular patient monitoring and appropriate dosage adjustments. During treatment with doxercalciferol injection, patients usually require dose titration, as well as adjustment in co-therapy (i.e., dietary phosphate binders) in

order to maximize PTH suppression while maintaining serum calcium and phosphorus levels within prescribed ranges.

In two open-label, single-arm, multi-centered studies, the incidence of hypercalcemia and hyperphosphatemia increased during therapy with doxercalciferol injection (see **ADVERSE REACTIONS**). The observed increases during doxercalciferol injection treatment underscore the importance of regular safety monitoring of serum calcium and phosphorus levels throughout treatment. Patients with higher pre-treatment serum levels of calcium (> 10.5 mg/dL) or phosphorus (> 6.9 mg/dL) were more likely to experience hypercalcemia or hyperphosphatemia. Therefore, doxercalciferol injection should not be given to patients with a recent history of hypercalcemia or hyperphosphatemia, or evidence of vitamin D toxicity.

Table 3: Incidence Rates of Hypercalcemia and Hyperphosphatemia in Two Phase 3 Studies with Doxercalciferol Injection

Study	Hypercalcemia (per 100 patient weeks)			
	Washout Open-Label		Washout	Open-Label
	(Off Treatment)	(Treatment)	(Off Treatment)	(Treatment)
Study C	0.9	0.9	0.9	2.4
Study D	0.3	1	1.2	3.7

Information for the Patient

The patient, spouse, or guardian should be informed about adherence to instructions about diet, calcium supplementation, and avoidance of the use of nonprescription drugs without prior approval from the patient's physician. Patients should also be carefully informed about the symptoms of hypercalcemia (see **ADVERSE REACTIONS**).

Laboratory Tests

Serum levels of iPTH, calcium, and phosphorus should be determined prior to initiation of doxercalciferol injection treatment. During the early phase of treatment (i.e., first 12 weeks), serum iPTH, calcium, and phosphorus levels should be determined weekly. For dialysis patients in general, serum or plasma iPTH and serum calcium, phosphorus, and alkaline phosphatase should be determined periodically.

Drug Interactions

Specific drug interaction studies have not been conducted. Magnesium-containing antacids and doxercalciferol should not be used concomitantly because such use may lead to the development of hypermagnesemia (see **WARNINGS**). Although not examined specifically, enzyme inducers (such as glutethimide and phenobarbital) may affect the 25-hydroxylation of doxercalciferol and may necessitate dosage adjustments. Cytochrome P450 inhibitors (such as ketoconazole and erythromycin) may inhibit the 25-hydroxylation of doxercalciferol. Hence, formation of the active doxercalciferol moiety may be hindered.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term studies in animals to evaluate the carcinogenic potential of doxercalciferol have not been conducted. No evidence of genetic toxicity was observed in an *in vitro* bacterial mutagenicity assay (Ames test) or a mouse lymphoma gene mutation assay. Doxercalciferol caused structural chromatid and chromosome aberrations in an *in vitro* human lymphocyte clastogenicity assay with metabolic activation. However, doxercalciferol was negative in an *in vivo* mouse micronucleus clastogenicity assay. Doxercalciferol had no effect on male or female fertility in rats at oral doses up to 2.5 mcg/kg/day

(approximately 3 times the maximum recommended human oral dose of 60 mcg/wk based on mcg/m^2 body surface area).

Use in Pregnancy

Pregnancy Category B

Reproduction studies in rats and rabbits, at doses up to 20 mcg/kg/day and 0.1 mcg/kg/day (approximately 25 times and less than the maximum recommended human oral dose of 60 mcg/week based on mcg/m² body surface area, respectively) have revealed no teratogenic or fetotoxic effects due to doxercalciferol. 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.

Nursing Mothers

It is not known whether doxercalciferol is excreted in human milk. Because other vitamin D derivatives are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from doxercalciferol, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

Pediatric Use

Safety and efficacy of doxercalciferol injection in pediatric patients have not been established.

Geriatric Use

Of the 70 patients treated with doxercalciferol injection in the two Phase 3 clinical studies, 12 patients were 65 years or over. In these studies, no overall differences in efficacy or safety were observed between patients 65 years or older and younger patients.

Hepatic Insufficiency

Studies examining the influence of hepatic insufficiency on the metabolism of doxercalciferol were inconclusive. Since patients with hepatic insufficiency may not metabolize doxercalciferol appropriately, the drug should be used with caution in patients with impaired hepatic function. More frequent monitoring of iPTH, calcium, and phosphorus levels should be done in such individuals.

ADVERSE REACTIONS

Doxercalciferol injection has been evaluated for safety in 70 patients with chronic renal disease on hemodialysis (who had been previously treated with oral doxercalciferol) from two 12-week, openlabel, single-arm, multi-centered studies. (Dosage titrated to achieve target plasma iPTH levels, see **CLINICAL PHARMACOLOGY, Clinical Studies**.)

Because there was no placebo group included in the studies of doxercalciferol injection, Table 4 provides the adverse event incidence rates from placebo-controlled studies of oral doxercalciferol.

Table 4: Adverse Events Reported by ≥ 2% of Doxercalciferol Injection Treated Patients and More Frequently than Placebo During the Double-Blind Phase of Two Clinical Studies

Adverse Event Body as a Whole	Doxercalciferol Injection (n = 61) %	Placebo (n = 61) %
Abscess	3.3	0.0
Headache	27.9	18.0
Malaise	27.9	19.7

Bradycardia	6.6	4.9
Digestive System		
Anorexia	4.9	3.3
Constipation	3.3	3.3
Dyspepsia	4.9	1.6
Nausea/Vomiting	21.3	19.7
Musculos keletal System		
Arthralgia	4.9	0.0
Metabolic and Nutritional		
Edema	34.4	21.3
Weight increase	4.9	0.0
Nervous System		
Dizziness	11.5	9.8
Sleep Disorder	3.3	0.0
Respiratory System		
Dyspnea	11.5	6.6
Skin		
Pruritus	8.2	6.6

Potential adverse effects of doxercalciferol injection are, in general, similar to those encountered with excessive vitamin D intake. The early and late signs and symptoms of vitamin D intoxication associated with hypercalcemia include:

Early

term.

Weakness, headache, somnolence, nausea, vomiting, dry mouth, constipation, muscle pain, bone pain, metallic taste, and anorexia.

Late

Polyuria, polydipsia, anorexia, weight loss, nocturia, conjunctivitis (calcific), pancreatitis, photophobia, rhinorrhea, pruritus, hyperthermia, decreased libido, elevated blood urea nitrogen (BUN), albuminuria, hypercholesterolemia, elevated serum aspartate transaminase (AST) and alanine transaminase (ALT), ectopic calcification, hypertension, cardiac arrhythmias, sensory disturbances, dehydration, apathy, arrested growth, urinary tract infections, and, rarely, overt psychosis.

Postmarketing Experience

Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to estimate their frequency or to establish a causal relationship to drug exposure.

Hypersensitivity reactions, including fatal outcome, have been reported in patients on hemodialysis following administration of doxercalciferol injection. Hypersensitivity reactions include anaphylaxis with symptoms of angioedema (involving face, lips, tongue and airways), hypotension, unresponsiveness, chest discomfort, shortness of breath, cardiopulmonary arrest, pruritus and skin burning sensation (see **WARNINGS**). These reactions may occur separately or together.

OVERDOSAGE

Administration of doxercalciferol injection to patients in excess doses can cause hypercalcemia, hypercalciuria, hyperphosphatemia, and over-suppression of PTH secretion leading in certain cases to adynamic bone disease. High intake of calcium and phosphate concomitant with doxercalciferol

injection may lead to similar abnormalities. High levels of calcium in the dialysate bath may contribute to hypercalcemia.

Treatment of Hypercalcemia and Overdosage

General treatment of hypercalcemia (greater than 1 mg/dL above the upper limit of the normal range) consists of immediate suspension of doxercalciferol injection therapy, institution of a low calcium diet, and withdrawal of calcium supplements. Serum calcium levels should be determined at least weekly until normocalcemia ensues. Hypercalcemia usually resolves in 2 to 7 days. When serum calcium levels have returned to within normal limits, doxercalciferol injection therapy may be reinstituted at a dose that is at least 1 mcg lower than prior therapy. Serum calcium levels should be obtained weekly after all dosage changes and during subsequent dosage titration. Persistent or markedly elevated serum calcium levels may be corrected by dialysis against a reduced calcium or calcium-free dialysate.

Treatment of Accidental Overdosage of Doxercalciferol Injection

The treatment of acute accidental overdosage of doxercalciferol injection should consist of general supportive measures. Serial serum electrolyte determinations (especially calcium), rate of urinary calcium excretion, and assessment of electrocardiographic abnormalities due to hypercalcemia should be obtained. Such monitoring is critical in patients receiving digitalis. Discontinuation of supplemental calcium and institution of a low calcium diet are also indicated in accidental overdosage. If persistent and markedly elevated serum calcium levels occur, treatment with standard medical care should be followed, as needed. Based on similarities between doxercalciferol and its active metabolite, 1α,25- $(OH)_2D_2$, it is expected that doxercalciferol is not removed from the blood by dialysis.

DOSAGE AND ADMINISTRATION

Adult Administration:

For intravenous use only. The optimal dose of doxercalciferol injection must be carefully determined for each patient.

The recommended initial dose of doxercalciferol injection is 4 mcg administered intravenously as a bolus dose 3 times weekly at the end of dialysis (approximately every other day). The initial dose should be adjusted, as needed, in order to lower blood iPTH into the range of 150 to 300 pg/mL. The dose may be increased at 8-week intervals by 1 mcg to 2 mcg if iPTH is not lowered by 50% and fails to reach the target range. Dosages higher than 18 mcg weekly have not been studied. Drug administration should be suspended if iPTH falls below 100 pg/mL and restarted one week later at a dose that is at least 1 mcg lower than the last administered dose. During titration, iPTH, serum calcium, and serum phosphorus levels should be obtained weekly. If hypercalcemia, hyperphosphatemia, or a serum calcium times phosphorus product greater than 55 mg 2 /dL 2 is noted, the dose of doxercalciferol injection should be decreased or suspended and/or the dose of phosphate binders should be appropriately adjusted. If suspended, the drug should be restarted at a dose that is 1 mcg lower.

Dosing must be individualized and based on iPTH levels with monitoring of serum calcium and serum phosphorus levels. Table 5 presents a suggested approach in dose titration:

<u>iPTH Level</u>	Doxercalciferol Injection Dose		
> 400 pg/mL 4 mcg 3 times per week at the end of dialysis, or appr			
	every other day Dose Titration		
iPTH Level	Doxercalciferol Injection Dose		
Decreased by < 50% and above	Increase by 1 med to 2 med at 0 week intervals as personary		

Table 5: Initial Dosing

300 pg/mL	Increase by 1 mcg to 2 mcg at 8-week intervals as necessary
Decreased by $> 50\%$ and above	Maintain
300 pg/mL	Maintain
150 to 300 pg/mL	Maintain
< 100 pg/mI	Suspend for one week, then resume at a dose that is at least 1 mcg
< 100 pg/mL	lower

HOW SUPPLIED

Doxercalciferol Injection is available in the following package:

4 mcg/2 mL (2 mcg/mL), 2 mL pre-scored amber ampuls packaged in 25s (NDC 0641-6154-25)

Store at 25°C (77°F), excursions permitted to 15 to 30°C (59 to 86°F) [See USP Controlled Room Temperature].

Protect from light.

To report SUSPECTED ADVERSE REACTIONS, contact West-Ward Pharmaceuticals Corp. at 1-877-845-0689, or the FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

For Product Inquiry call 1-877-845-0689.

Manufactured by: HIKMA FARMACÊUTICA (PORTUGAL), S.A. Estrada do Rio da MI, 8, 8A e 8B – Fervença – 2705-906 Terrugem SNT, PORTUGAL

Distributed by: WEST-WARD

A Hikma Company Eatontown, NJ 07724 USA

PIN349-WES/2

Revised July 2016

PRINCIPAL DISPLAY PANEL - Container

NDC 0641-6154-01 2 mL Ampul Doxercalciferol Injection Rx only 4 mcg/2 mL (2 mcg/mL) For Intravenous Use Only Protect From Light Discard Unused Portion



PRINCIPAL DISPLAY PANEL - Carton

NDC 0641-6154-25Rx onlyDoxercalciferolIInjection44 mcg/2 mL4(2 mg/mL)5For Intravenous Use OnlyProtect From Light4Discard Unused Portion425 x 2 mL Ampuls4

CONTENTS

Active Ingredient: Doxercalciferol, 0.0002% Inactive ingredients: Polysorbate 20, 0.4%; Sodium Chloride, 0.15%; Sodium Ascorbate, 1.0%; Sodium Phosphate, Dibasic, Anhydrous, 0.76%; Sodium Dihydrogen Phosphate, Dihydrate, 0.234%; Edetate, Disodium, Dihydrate, 0.11%; Water for Injection, 97.35%

Usual Dosage: See accompanying prescribing information. Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature]. PROTECT FROM LIGHT: Keep covered in carton until time of use.



DOXERCALC	IFEROL					
loxercalciferol injec	tion					
Product Informa	tion					
		HUMAN PRESCRIPTION DRUG	Itom Codo	(5	NDC·C	641-6154
Product Type			Item Code	(Source)	NDC.C	/041-0154
Route of Administra	ition	INTRAVENOUS				
Active Ingredien	t/Active Moi	ety				
	In	gredient Name		Basis of S	trength	Strength
DOXERCALCIFEROL	UNII: 3DIZ9LF	5Y9) (DOXERCALCIFEROL - UNII:3DIZ91	LF5Y9)	DOXERCALO	CIFEROL	2 ug in 1 mL
Inactive Ingredie	nts					
8		Ingredient Name			St	rength
POLYSORBATE 20 (UNII: 7T1F30V5Y				4 mg in 1 mL	
SO DIUM CHLO RIDE					1.5 mg in 1 mL	
SODIUM ASCORBATE (UNII: S033EH8359)					10 mg in 1 mL	
SODIUM PHOSPHATE, DIBASIC, ANHYDROUS (UNII: 22ADO53M6F)					7.6 mg in 1 mL	
SODIUM PHOSPHATE, MONOBASIC (UNII: 3980JIH2SW)					2.3 mg in 1 mL	
EDETATE DISO DIUM	(UNII: 7FLD91C	86K)			1.1 mg in 1 mL	
WATER (UNII: 059QF)KO0R)					
Packaging						
# Item Code		Package Description	Markating	Start Date	Markati	ng End Date
1 NDC:0641-6154-25		Package DescriptionMarketing Start Date08/30/2013		Marketing End Date		
	4-25 25 in 1 BOX 08/30/2013 4-01 2 mL in 1 AMPULE; Type 0: Not a Combination Product					
INDC.0041-0154-01	2 IIIL III I AIVIPU	EE, Type 0. Not a Combination Product				
	ormation					
Marketing Inf	or mation					
Marketing Inf		on Number or Monograph Citation	Marketing	Start Date	Marketi	ng End Date
0		U 1	Marketing 08/30/2013	Start Date	Marketi	ng End Date

Establishment			
Name	Address	ID/FEI	Business Operations
HIKMA FARMACEUTICA (PORTUGAL), S.A		452742943	ANALYSIS(0641-6154), LABEL(0641-6154), MANUFACTURE(0641-6154), PACK(0641-6154)

Revised: 12/2019

Hikma Pharmaceuticals USA Inc.