CLINDAMYCIN PHOSPHATE- clindamycin phosphate gel usp, 1% gel Preferred Pharmaceuticals Inc.

Clindamycin Phosphate Gel USP, 1%

For External Use

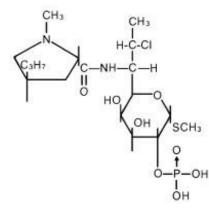
DESCRIPTION

lindamycin phosphate gel USP, 1% contains clindamycin phosphate, USP, at a concentration equivalent to 10 mg clindamycin per gram.

Clindamycin phosphate is a water soluble ester of the semi-synthetic antibiotic produced by a 7(S)-chloro-substitution of the 7(R)-hydroxyl group of the parent antibiotic lincomycin.

The gel contains allantoin, carbomer 934P, methylparaben, polyethylene glycol 400, propylene glycol, purified water and sodium hydroxide.

The structural formula is represented below:



The chemical name for clindamycin phosphate is Methyl 7-chloro-6,7,8-trideoxy-6-(1methyl- *trans*-4-propyl-L-2-pyrrolidinecarboxamido)-1-thio-L- *threo*-α-D- *galacto*octopyranoside 2-(dihydrogen phosphate).

CLINICAL PHARMACOLOGY

Mechanism of Action

The mechanism of action of clindamycin in treating acne vulgaris is unknown.

Pharmacokinetics

Following multiple topical applications of clindamycin phosphate at a concentration equivalent to 10 mg clindamycin per mL in an isopropyl alcohol and water solution, very low levels of clindamycin are present in the serum (0 to 3 ng/mL) and less than 0.2% of the dose is recovered in urine as clindamycin.

Although clindamycin phosphate is inactive *in vitro*, rapid i *n vivo* hydrolysis converts this compound to the antibacterially active clindamycin.

Microbiology

Clindamycin inhibits bacterial protein synthesis by binding to the 23S RNA of the 50S subunit of the ribosome. Clindamycin is bacteriostatic.

Antimicrobial Activity

Clindamycin is active in vitro against most isolates of *Propionibacterium acnes*;however, the clinical significance is unknown.

<u>Resistance</u>

Resistance to clindamycin is most often caused by modification of specific bases of the 23S ribosomal RNA. Cross-resistance between clindamycin and lincomycin is complete. Because the binding sites for these antibacterial drugs overlap, cross resistance is sometimes observed among lincosamides, macrolides and streptogramin B. Macrolide-inducible resistance to clindamycin occurs in some isolates of macrolide-resistant bacteria.

INDICATIONS AND USAGE

Clindamycin phosphate gel, 1% is indicated in the treatment of acne vulgaris. In view of the potential for diarrhea, bloody diarrhea and pseudomembranous colitis, the physician should consider whether other agents are more appropriate (see CONTRAINDICATIONS, WARNINGS and ADVERSE REACTIONS).

CONTRAINDICATIONS

Clindamycin phosphate gel is contraindicated in individuals with a history of hypersensitivity to preparations containing clindamycin or lincomycin, a history of regional enteritis or ulcerative colitis, or a history of antibiotic-associated colitis.

WARNINGS

Orally and parenterally administered clindamycin has been associated with severe colitis which may result in patient death. Use of the topical formulation of clindamycin results in absorption of the antibiotic from the skin surface. Diarrhea, bloody diarrhea, and colitis (including pseudomembranous colitis) have been reported with the use of topical and systemic clindamycin.

Studies indicate a toxin(s) produced by clostridia is one primary cause of antibiotic-associated colitis. The colitis is usually characterized by severe persistent diarrhea and severe abdominal cramps and may be associated with the passage of blood and mucus. Endoscopic examination may reveal pseudomembranous colitis. <u>Stool culture for *Clostridium difficile* and stool assay for *C. difficile* toxin may be helpful diagnostically.</u>

When significant diarrhea occurs, the drug should be discontinued. Large bowel endoscopy should be considered to establish a definitive diagnosis in cases of severe diarrhea.

Antiperistaltic agents such as opiates and diphenoxylate with atropine may prolong and/or worsen the condition. Vancomycin has been found to be effective in the treatment of antibiotic-associated pseudomembranous colitis produced by *Clostridium difficile*. The usual adult dosage is 500 milligrams to 2 grams of vancomycin orally per day in three to four divided doses administered for 7 to 10 days. <u>Cholestyramine or colestipol resins bind</u> <u>vancomycin *in vitro*. If both a resin and vancomycin are to be administered concurrently, it may be advisable to separate the time of administration of each drug.</u>

Diarrhea, colitis, and pseudomembranous colitis have been observed to begin up to several weeks following cessation of oral and parenteral therapy with clindamycin.

PRECAUTIONS

General

Clindamycin phosphate gel should be prescribed with caution in atopic individuals.

Drug Interactions

Clindamycin has been shown to have neuromuscular blocking properties that may enhance the action of other neuromuscular blocking agents. Therefore, it should be used with caution in patients receiving such agents.

Pregnancy: Teratogenic effects

In clinical trials with pregnant women, the systemic administration of clindamycin during the second and third trimesters has not been associated with an increased frequency of congenital abnormalities. There are no adequate studies in pregnant women during the first trimester of pregnancy. Clindamycin should be used during the first trimester of pregnancy only if clearly needed.

Nursing Mothers

It is not known whether clindamycin is excreted in breast milk following use of clindamycin phosphate gel. However, orally and parenterally administered clindamycin has been reported to appear in breast milk. Clindamycin has the potential to cause adverse effects on the breast-fed infant's gastrointestinal flora. Monitor the breast-fed infant for possible adverse effects on the gastrointestinal flora, such as diarrhea, candidiasis (thrush, diaper rash) or rarely, blood in the stool indicating possible antibiotic-associated colitis.

The developmental and health benefits of breastfeeding should be considered along with

the mother's clinical need for clindamycin and any potential adverse effects on the breast-fed child from clindamycin or from the underlying maternal condition.

Clinical Considerations

If used during lactation and clindamycin phosphate gel is applied to the chest, care should be taken to avoid accidental ingestion by the infant.

Pediatric Use

Safety and effectiveness in pediatric patients under the age of 12 have not been established.

Geriatric Use

Clinical studies for clindamycin phosphate gel 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.

ADVERSE REACTIONS

In 18 clinical studies of various formulations of clindamycin phosphate using placebo vehicle and/or active comparator drugs as controls, patients experienced a number of treatment emergent adverse dermatologic events [see table below].

Treatment	Solution	Gel	Lotion
Emergent Adverse Event	n= 553(%)	n= 148(%)	n= 160 (%)
Burning	62 (11)	15 (10)	17 (11)
Itching	36 (7)	15 (10)	17 (11)
Burning/Itching	60 (11)	# (-)	# (-)
Dryness	105 (19)	34 (23)	29 (18)
Erythema	86 (16)	10(7)	22 (14)
Oiliness/Oily Skin	8(1)	26 (18)	12* (10)
Peeling	61 (11)	# (-)	11(7)

Number of Patients Reporting Events

not recorded

* of 126 subjects

Orally and parenterally administered clindamycin has been associated with severe colitis which may end fatally.

Cases of diarrhea, bloody diarrhea and colitis (including pseudomembranous colitis) have been reported as adverse reactions in patients treated with oral and parenteral formulations of clindamycin and rarely with topical clindamycin (see WARNINGS).

Abdominal pain, gastrointestinal disturbances, gram-negative folliculitis, eye pain and contact dermatitis have also been reported in association with the use of topical formulations of clindamycin.

OVERDOSAGE

Topically applied clindamycin phosphate can be absorbed in sufficient amounts to produce systemic effects (see WARNINGS).

DOSAGE AND ADMINISTRATION

Apply a thin film of clindamycin phosphate gel USP 1% twice daily to affected area.

Keep container tightly closed.

HOW SUPPLIED

Clindamycin phosphate gel USP, 1% containing clindamycin phosphate equivalent to 10 mg clindamycin per gram is available in the following sizes:

60 gram tube - NDC 68788-8423-6

To report SUSPECTED ADVERSE REACTIONS, contact Encube Ethicals Private Limited at 1-833-285-4151 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

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

Protect from freezing.

Rx only

Manufactured by:

Encube Ethicals Pvt. Ltd. Plot No. C1, Madkaim Industrial Estate, Madkaim, Post: Mardol, Ponda, Goa – 403 404, India.

Distributed by:

Encube Ethicals, Inc. 200 Meredith Avenue, Suite 101A Durham, NC 27713 USA

Revised: 03/2021

Relabeled By: Preferred Pharmaceuticals Inc.

PRINCIPAL DISPLAY PANEL -60 GM TUBE PACK

Clindamycin Phosphate Gel USP, 1% - 60 GM Tube Pack

Container Label (60 GM):

NDC 68788-8423-6

Clindamycin Phosphate Gel USP, 1%

For topical use only

60 gram

Rx only

Store at controlled room temperature 20° to 25°C (68° to 77°F)

[see USP]. Protect from freezing.

For external use only. Avoid contact with eyes

See crimp of tube for Expiration Date and Lot Number.

Clindamycin Phosphate Gel 1	PREFERRED Pharmaceuticals, Inc	CAUTION: Federal law PROHIBITS transfer of this drug to any person other thean the patient for whom it was prescribed	Clindamycin Phosphate Gel 1% Qty: Ins: Lot#: Bat#: Prod# (NDC):	Log
% Generic for Cleocin T 1% Gel Each gram contains: clindamycin phosphate equivalent to clindamycin 10mg (1%) Pkg Size: Exp Date: Lot#:	your	v ecce	Clindamycin Phosphate Gel 1% Qty: Ins: Lot#: Bat#: Prod# (NDC):	Chart
Batch#: Ins: Mfg: Encube Ethicals Private Limited Prod#: Warning	utions Engl	Instrucciones Espande amentev 1. doctor	Clindamycin Phosphate Gel 1% Qty: Insurance NDC: Lot#: Bat#:	Billing
For topical use only. For external use only. Avid contact with eyes. Store at controlled room temperature 20°-25°C (68°-77°F), Protect from freezing, Rx Only.	Apply exter es a day. Use as dire doctor	Aplique extername s al dia. Uso según por su doc	Clindamycin Phosphate Gel 1% Qty: Ins: Lot#: Bat#: Prod# (NDC):	Patient

CLINDAMYCIN PHOSPHATE

clindamycin phosphate gel usp, 1% gel

Product Information					
Product Type	HUMAN PRESCRIPTION DRUG	Item Code NDC:68788-8423(NDC:2192) (Source) 027)		NDC:21922-	
Route of Administration	TOPICAL				
Active Ingredient/Active	Moiety				
Ingredient Name Basis of Strength					Strength
CLINDAMYCIN PHOSPHATE (UNII: EH6D7113I8) (CLINDAMYCIN -CLINDAMYCINUNII:3U02EL437C)PHOSPHATE				10 mg in 1 g	
Inactive Ingredients					
Ingredient Name					Strength
ALLANTOIN (UNII: 344S277G0Z)					
CARBOMER HOMOPOLYMER TY HHT01ZNK31)	PE B (ALLYL PENTAERYTH	IRITOL CROSSLI	NKED)	(UNII:	
METHYLPARABEN (UNII: A218C7H	I9T)				
POLYETHYLENE GLYCOL 400 (U					

PR		DL (UNII: 6DC9Q167V3)			
sc		DE (UNII: 55X04QC32I)			
w	ATER (UNII: 059Q	F0KO0R)			
Pa	ackaging				
#	ltem Code	Package Description	М	arketing Start Date	Marketing End Date
1	NDC:68788- 8423-6	1 in 1 CARTON	04/13/2023		
1		60 g in 1 TUBE; Type 0: Not a Combination Product			
Μ	arketing	Information			
	Marketing Category	Application Number or Monograph Citation	1	Marketing Start Date	Marketing End Date
AN	DA	ANDA212438	0	4/13/2023	

Labeler - Preferred Pharmaceuticals Inc. (791119022)

Registrant - Preferred Pharmaceuticals Inc. (791119022)

Establishment						
Name	Address	ID/FEI	Business Operations			
Preferred Pharmaceuticals Inc.		791119022	RELABEL(68788-8423)			

Revised: 4/2023

Preferred Pharmaceuticals Inc.