LKT Laboratories, Inc.

Disodium Cycloheptylaminomethylene Diphosphate

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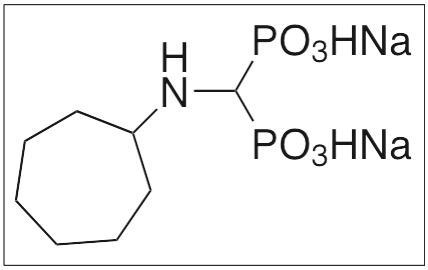
Product Information

Product ID D3372
CAS No. 138330-18-4
Chemical Name disodium;[(cycloheptylamino)-[hydroxy(oxido)phosphoryl]methyl]-hydroxyphosphinate

Synonym Incadronate disodium hydrate, Bisphonal



Formula $C_8H_{17}NNa_2O_6P_2$
Formula Wt. 331.15
Melting Point
Purity ≥98%
Solubility

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
D3372	25 mg	$77.60
D3372	100 mg	$189.90
D3372	250 mg	$387.90

Store Temp Ambient
Ship Temp Ambient
Description Cycloheptylaminomethylene diphosphate is a bisphosphonate compound that inhibits squalene synthase and sterol biosynthesis in vitro and in vivo. In various immune cells, this compound increases caspase-mediated apoptosis. Like other bisphosphonates, this compound is known for its use in preventing bone resorption and bone loss. In vivo, this compound inhibits osteoclast-mediated bone resorption and prevents bone loss due to immobilization. When administered chronically, this compound delays fracture healing in vivo, but improves stiffness and ultimate load of the fractured bone; it does not prevent bone formation.

References

Miwa A, Takezako N, Hayakawa H, et al. YM-175 induces apoptosis of human native monocyte-lineage cells via inhibition of prenylation. Am J Hematol. 2012 Dec;87(12):1084-8. PMID: 23044853.

Li C, Mori S, Li J, et al. Long-term effect of incadronate disodium (YM-175) on fracture healing of femoral shaft in growing rats. J Bone Miner Res. 2001 Mar;16(3):429-36. PMID: 11277259.

Li J, Mori S, Mashiba T, et al. Preadministration of incadronate disodium can prevent bone loss in rat proximal tibial metaphysis when induced by hindlimb immobilization by bandage. Bone. 1998 Nov;23(5):459-63. PMID: 9823453.

Gen M. Effects of bisphosphonates on vitamin A-induced bone resorption in thyroparathyroidectomized rat. Nihon Seikeigeka Gakkai Zasshi. 1995 Nov;69(11):1193-207. PMID: 8568374.

Amin D, Cornell SA, Gustafson SK, et al. Bisphosphonates used for the treatment of bone disorders inhibit squalene synthase and cholesterol biosynthesis. J Lipid Res. 1992 Nov;33(11):1657-63. PMID: 1464749.