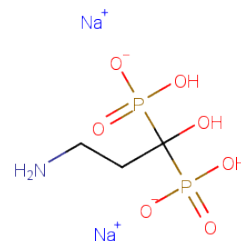


Pamidronate Disodium

Chemical Properties

CAS No. :	57248-88-1
Formula:	C ₃ H ₉ NNa ₂ O ₇ P ₂
Molecular Weight:	279.03
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Pamidronate Disodium (CGP 23339A), a nitrogen-containing bisphosphonate, can help to strengthen bones.
Targets(IC50)	Others,HBV
In vitro	In ovariectomized rats, Pamidronate significantly enhanced bone density and trabecular weight. Additionally, in rats treated with Growth Hormone (GH), Pamidronate reduced the levels of IGF-I.
In vivo	In human osteoblast-like cells, Pamidronate (1 μM) enhances the level of OPG mRNA and protein secretion in a dose-dependent manner. Additionally, in mouse osteoclast-like cells (IC50=0.58 μM), Pamidronate inhibits the resorption of calcium phosphate films.

Solubility Information

Solubility	DMSO: Insoluble, H ₂ O: 10 mM, (1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5838 mL	17.9192 mL	35.8384 mL
5 mM	0.7168 mL	3.5838 mL	7.1677 mL
10 mM	0.3584 mL	1.7919 mL	3.5838 mL
50 mM	0.0717 mL	0.3584 mL	0.7168 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Viereck V, et al. Biochem Biophys Res Commun, 2002, 291(3), 680-686.

Fitton A, et al. Drugs, 1991, 41(2), 289-318.

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