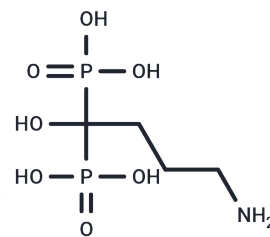


Alendronic Acid

Chemical Properties

CAS No. :	66376-36-1
Formula:	C ₄ H ₁₃ NO ₇ P ₂
Molecular Weight:	249.10
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Alendronic Acid (alendronate) is a nonhormonal medication used for osteoporosis, osteogenesis imperfecta, and several other bone diseases.
Targets(IC50)	Others,Antibacterial
In vivo	Alendronic Acid in the treatment of osteoporosis in children and adolescents[1].

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: 6.56 mg/mL (26.33 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0145 mL	20.0723 mL	40.1445 mL
5 mM	0.8029 mL	4.0145 mL	8.0289 mL
10 mM	0.4014 mL	2.0072 mL	4.0145 mL
50 mM	0.0803 mL	0.4014 mL	0.8029 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Martín Siguero A, Áreas Del Águila VL, Franco Sereno M T , et al. Efficacy and safety of alendronic acid in the treatment of osteoporosis in children.[J]. Farm Hosp, 2015, 39(6):350-354.

Parente-Pereira A C , Shmeeda H , Whilding L M , et al. Adoptive Immunotherapy of Epithelial Ovarian Cancer with V α V β 2 T Cells, Potentiated by Liposomal Alendronic Acid[J]. The Journal of Immunology, 2014, 193(11):5557-5566.

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