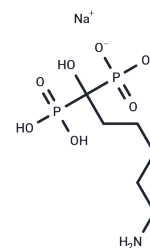


Monosodium neridronate

Chemical Properties

CAS No. :	80729-79-9
Formula:	C ₆ H ₁₆ NNaO ₇ P ₂
Molecular Weight:	299.13
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Monosodium neridronate is an amino-containing bisphosphonate bone resorption inhibitor. Binding with high affinity to hydroxyapatite surfaces, it induces osteoclast apoptosis by strongly inhibiting farnesyl pyrophosphate synthase (FPPS) activity, demonstrating outstanding efficacy in models of osteogenesis imperfecta and Paget's disease.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.343 mL	16.7151 mL	33.4303 mL
5 mM	0.6686 mL	3.343 mL	6.6861 mL
10 mM	0.3343 mL	1.6715 mL	3.343 mL
50 mM	0.0669 mL	0.3343 mL	0.6686 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

Wu J, Li J, Xu M H, et al. Structure-activity relationship and interaction studies of new SIRT1 inhibitors with the scaffold of 3-(furan-2-yl)-[1, 2, 4] triazolo [3, 4-b][1, 3, 4] thiadiazole[J]. Bioorganic & Medicinal Chemistry Letters, 2014, 24(14): 3050-3056.

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