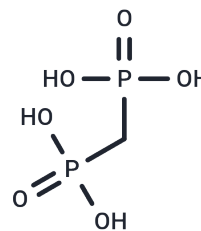


Medronic acid

Chemical Properties

CAS No. :	1984-15-2
Formula:	CH ₆ O ₆ P ₂
Molecular Weight:	176
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Medronic acid (Methylenediphosphonic acid), a methylene-substituted bisphosphonate, exhibits affinity for and adherence to hydroxyapatite crystals within the bone matrix. Accumulating at sites of osteoid mineralization, it is utilized, often in conjunction with radioisotopes, for bone imaging.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 250 mg/mL (1420.45 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	5.6818 mL	28.4091 mL	56.8182 mL
5 mM	1.1364 mL	5.6818 mL	11.3636 mL
10 mM	0.5682 mL	2.8409 mL	5.6818 mL
50 mM	0.1136 mL	0.5682 mL	1.1364 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

Ohta Y, et al. Salt Tolerance Enhancement of Liquid Chromatography-Matrix-Assisted Laser Desorption/Ionization-Mass Spectrometry Using Matrix Additive Methylenediphosphonic Acid. Mass Spectrom (Tokyo). 2014;3(1):A0031.

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