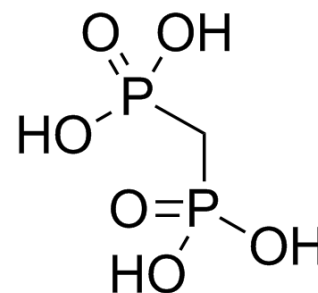


Medronic acid

Cat. No.:	HY-108309		
CAS No.:	1984-15-2		
Molecular Formula:	CH ₆ O ₆ P ₂		
Molecular Weight:	176		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



Solvent & Solubility

In Vitro

DMSO : 250 mg/mL (1420.45 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
Solubility: ≥ 2.08 mg/mL (11.82 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
Solubility: ≥ 2.08 mg/mL (11.82 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**
Solubility: ≥ 2.08 mg/mL (11.82 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Medronic Acid (Methylenediphosphonic acid) is a methylene-substituted bisphosphonate. Medronic acid has affinity for and adheres to the surface of hydroxyapatite crystals in the bone matrix. This agent accumulates at sites of osteoid mineralization and can be used, complexed with radioisotopes in bone imaging.

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

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