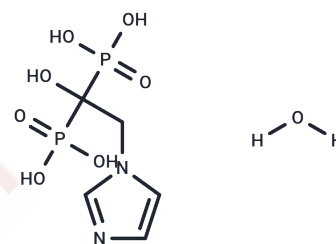


Zoledronic acid monohydrate

Chemical Properties

CAS No. :	165800-06-6
Formula:	C ₅ H ₁₂ N ₂ O ₈ P ₂
Molecular Weight:	290.1
Storage:	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	Zoledronic acid monohydrate (CGP 42446) is a synthetic imidazole bisphosphonate analog with anti-bone-resorption activity.
Targets(IC50)	Apoptosis, Antibacterial, Autophagy

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble) 0.1M NaOH: 10 mg/mL (34.47 mM), Sonication and heating are recommended. H ₂ O: Insoluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4471 mL	17.2354 mL	34.4709 mL
5 mM	0.6894 mL	3.4471 mL	6.8942 mL
10 mM	0.3447 mL	1.7235 mL	3.4471 mL
50 mM	0.0689 mL	0.3447 mL	0.6894 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

- Albani-Campanario M , G Buendía-Díaz, Flores-Islas M , et al. [Zoledronic acid-based uveitis: a case report and a bibliography review][J]. *Ginecología Y Obstetricia De México*, 2012, 80(5):355-9.
- Huang WW, Huang C, Liu J, Zheng HY, Lin L. Zoledronic acid as an adjuvant therapy in patients with breast cancer: a systematic review and meta-analysis. *PLoS One*. 2012;7(7):e4078doi: 10.1371/journal.pone.004078Epub 2012 Jul 26. Review. PubMed PMID: 22844410; PubMed Central PMCID: PMC3406041.
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