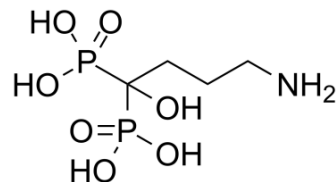


Alendronic acid

Cat. No.:	HY-B0631		
CAS No.:	66376-36-1		
Molecular Formula:	C ₄ H ₁₃ NO ₇ P ₂		
Molecular Weight:	249.1		
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

H₂O : 8.33 mg/mL (33.44 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
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

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

BIOLOGICAL ACTIVITY

Description

Alendronic acid, a bisphosphonate, is a farnesyl diphosphate synthase (FDPS) inhibitor. Alendronic acid inhibits osteoclast-mediated bone resorption. Alendronic acid shows efficacy in postmenopausal osteoporosis, malignant hypercalcemia and Paget's disease^[1].

In Vitro

Bisphosphonates are widely used in the treatment of osteoporosis, and among the bisphosphonates, alendronic acid is the most frequently prescribed drug. Bisphosphonates have powerful inhibitory effects on bone remodeling, a process that is critically important for fracture healing^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Teixeira S, et al. Alendronic Acid as Ionic Liquid: New Perspective on Osteosarcoma. *Pharmaceutics*. 2020 Mar 24;12(3). pii: E293.

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

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