

Product Datasheet

Zoledronic acid monohydrate (orb1306411)

Catalog Number	orb1306411
Category	Small Molecules
Description	Zoledronic acid monohydrate (CGP 42446) is a synthetic bisphosphonate that potently inhibits osteoclast-mediated bone resorption. It is widely used in research models of osteoporosis, bone metastasis, and hypercalcemia, with applications in both in vitro cellular assays and in vivo animal studies.
Target	Apoptosis, Autophagy, Antibacterial
Purity	99.91% (May vary between batches)
MW	290.1
Target Areas	Antibacterial Apoptosis Autophagy
Solubility (25°C)	0.1M NaOH: 10 mg/mL (34.47 mM); H ₂ O: Insoluble; DMSO: 1 mg/mL (insoluble or slightly soluble)
CAS Number	165800-06-6
Formula	C ₅ H ₁₂ N ₂ O ₈ P ₂
SMILES	OC(P(O)(O)=O)(P(O)(O)=O)CN1C=CN=C1.[H]O[H]
Storage	Powder: -20°C for 3 years In solvent: -80°C for 1 year Shipping with blue ice/Shipping at ambient temperature.
Note	For research use only
Expiration Date	12 months from date of receipt.

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