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DATASHEET

Zoledronic acid

Product overview

Name	Zoledronic acid
Cat No	HB0674
Alternative names	Zometa
Description	Highly potent bisphosphonate, shows variety of biological actions

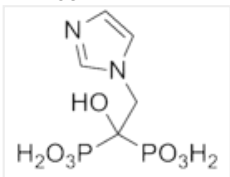
Biological Data

Biological description	Highly potent bisphosphonate, shows variety of biological actions. Ras signaling inhibitor. Inhibits bone metastasis. Shows apoptotic effects and inhibits proliferation. Also reduces tumour burden and growth.
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Solubility & Handling

Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.
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Chemical Data

Chemical name	Zoledronate
Molecular Weight	272.09
Chemical structure	
Molecular Formula	C ₅ H ₁₀ N ₂ O ₇ P ₂
CAS Number	118072-93-8
PubChem identifier	68740
SMILES	C1=CN(C=N1)CC(O)(P(=O)(O)O)P(=O)(O)O
InChiKey	XRASPMIURGNCCH-UHFFFAOYSA-N

References

Zoledronic acid affects the cytotoxic effects of *Chlamydia pneumoniae* and the modulation of cytokine production in human osteosarcoma cells.

Rizzo A *et al* (2014) Int Immunopharmacol 22(1)

PubMedID [24975838](#)

Antineoplastic activity of zoledronic acid and denosumab.

Zwolak P *et al* (2013) Anticancer Res 33(8)

PubMedID 23898050

Zoledronic acid inhibits macrophage/microglia-assisted breast cancer cell invasion.

Rietkötter E *et al* (2013) Oncotarget 4(9)

PubMedID 24036536
