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## DATASHEET

Zoledronic acid

### Product overview

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

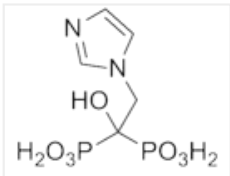
### Biological Data

<b>Biological description</b>	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

<b>Important</b>	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

<b>Chemical name</b>	Zoledronate
<b>Molecular Weight</b>	272.09
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>7</sub> P <sub>2</sub>
<b>CAS Number</b>	118072-93-8
<b>PubChem identifier</b>	68740
<b>SMILES</b>	C1=CN(C=N1)CC(O)(P(=O)(O)O)P(=O)(O)O
<b>InChiKey</b>	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](#)

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