

Zoledronic Acid

Catalog No: tcsc1829



Available Sizes

Size: 100mg

Size: 200mg

Size: 500mg



Specifications

CAS No:

118072-93-8

Formula:

$C_5H_{10}N_2O_7P_2$

Pathway:

Autophagy

Target:

Autophagy

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

Zoledronate;CGP 42446;CGP42446A;ZOL 446

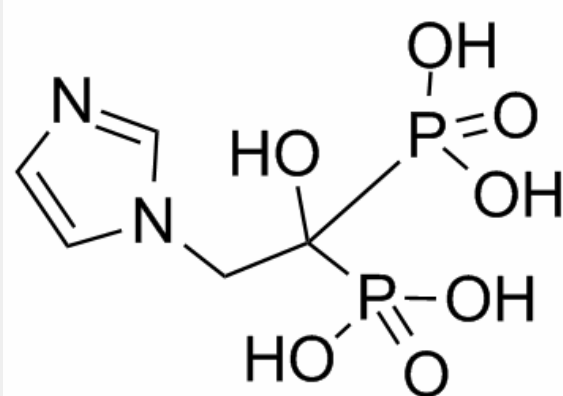
Observed Molecular Weight:

272.09

Product Description

Zoledronic Acid is a third-generation, nitrogen-containing bisphosphonate, inhibits osteoclast-mediated bone resorption, and also has antitumor activity.

In Vitro: Zoledronic Acid induces apoptosis in HGF and HaCaT cells at 0.5 μM , and causes cell death at 1-5 μM ^[1]. Zoledronic Acid (50, 100 μM) causes dose- and time-dependent apoptosis in CNE-2Z cells after treatment for 24, 48, and 72 h. Zoledronic Acid (50 μM) also increases the level of ROS, which is supposed to mediate Cl^- currents activation in CNE-2Z cells. Furthermore, the apoptosis and chloride currents induced by Zoledronic Acid can be blocked by knocking down CIC-3 protein expression^[2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!