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 ClC-3 protein expression\(^2\).

REFERENCES


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

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