



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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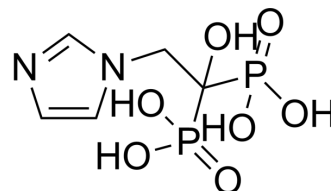
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Zoledronic Acid (Standard)

Cat. No.:	HY-13777R
CAS No.:	118072-93-8
Molecular Formula:	C ₅ H ₁₀ N ₂ O ₇ P ₂
Molecular Weight:	272.09
Target:	Bacterial; Apoptosis; Autophagy
Pathway:	Anti-infection; Apoptosis; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Zoledronic Acid (Standard) is the analytical standard of Zoledronic Acid. This product is intended for research and analytical applications. Zoledronic Acid (Zoledronate) is a third-generation bisphosphonate (BP), with potent anti-resorptive activity. Zoledronic Acid inhibits the differentiation and apoptosis of osteoclasts. Zoledronic Acid also has anti-cancer effects^[1].

REFERENCES

- [1]. Lianwei Wang, et al. Various pathways of zoledronic acid against osteoclasts and bone cancer metastasis: a brief review. *BMC Cancer*. 2020; 20: 1059.
- [2]. Hyung Joon Kim, et al. Zoledronate Enhances Osteocyte-Mediated Osteoclast Differentiation by IL-6/RANKL Axis. *Int J Mol Sci*. 2019 Mar; 20(6): 1467.
- [3]. Xiao-Lin Huang, et al. Zoledronic acid inhibits osteoclast differentiation and function through the regulation of NF-κB and JNK signalling pathways. *Int J Mol Med*. 2019 Aug;44(2):582-592.
- [4]. XIN HUANG, et al. Dose-dependent inhibitory effects of zoledronic acid on osteoblast viability and function in vitro. *Mol Med Rep*. 2016 Jan; 13(1): 613-622.
- [5]. Samantha Pozzi, et al. High-dose zoledronic acid impacts bone remodeling with effects on osteoblastic lineage and bone mechanical properties. *Clin Cancer Res*. 2009 Sep 15;15(18):5829-39.
- [6]. Shea GKH, et al. Oral Zoledronic acid bisphosphonate for the treatment of chronic low back pain with associated Modic changes: A pilot randomized controlled trial. *J Orthop Res*. 2022 Feb 23.

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

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