



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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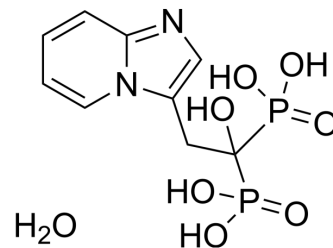
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## Minodronic acid hydrate

Cat. No.:	HY-16322A
CAS No.:	155648-60-5
Molecular Formula:	C <sub>9</sub> H <sub>14</sub> N <sub>2</sub> O <sub>8</sub> P <sub>2</sub>
Molecular Weight:	340.16
Target:	P2X Receptor; Apoptosis
Pathway:	Membrane Transporter/Ion Channel; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Minodronic acid (YM-529) hydrate is a third-generation bisphosphonate that directly and indirectly prevents proliferation, induces apoptosis, and inhibits metastasis of various types of cancer cells. Minodronic acid (YM-529) is an antagonist of purinergic P2X2/3 receptors involved in pain<sup>[1][2]</sup>.

### REFERENCES

- [1]. Sato K, et al. A third-generation bisphosphonate, minodronic acid (YM529), successfully prevented the growth of bladder cancer in vitro and in vivo. *Br J Cancer*. 2006 Nov 20;95(10):1354-61.
- [2]. Tanaka M, et al. Minodronic acid induces morphological changes in osteoclasts at bone resorption sites and reaches a level required for antagonism of purinergic P2X2/3 receptors. *J Bone Miner Metab*. 2018 Jan;36(1):54-63.

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

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