



# 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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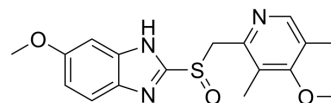
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## Omeprazole (Standard)

Cat. No.:	HY-B0113R
CAS No.:	73590-58-6
Molecular Formula:	C <sub>17</sub> H <sub>19</sub> N <sub>3</sub> O <sub>3</sub> S
Molecular Weight:	345.42
Target:	Bacterial; Proton Pump; Autophagy; Phospholipase
Pathway:	Anti-infection; Membrane Transporter/Ion Channel; Autophagy; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Omeprazole (Standard) is the analytical standard of Omeprazole. This product is intended for research and analytical applications. Omeprazole (H 16868), a proton pump inhibitor (PPI), is available for treatment of acid-related gastrointestinal disorders. Omeprazole shows competitive inhibition of CYP2C19 activity with a $K_i$ of 2 to 6 $\mu\text{M}$ <sup>[1]</sup> . Omeprazole also inhibits growth of Gram-positive and Gram-negative bacteria <sup>[2]</sup> . Omeprazole is a potent brain penetrant neutral sphingomyelinase (N-SMase) inhibitor (exosome inhibitor) <sup>[3]</sup> .
IC <sub>50</sub> & Target	Proton Pump <sup>[1]</sup>

### REFERENCES

- [1]. Li XQ, et al. Comparison of inhibitory effects of the proton pump-inhibiting drugs omeprazole, esomeprazole, lansoprazole, pantoprazole, and rabeprazole on human cytochrome P450 activities. *Drug Metab Dispos.* 2004 Aug;32(8):821-7.
- [2]. Jonkers D, et al. Omeprazole inhibits growth of gram-positive and gram-negative bacteria including *Helicobacter pylori* in vitro. *J Antimicrob Chemother.* 1996 Jan;37(1):145-50.
- [3]. Huarui Zhang, et al. Advances in the discovery of exosome inhibitors in cancer. *J Enzyme Inhib Med Chem.* 2020 Dec;35(1):1322-1330.

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

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