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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

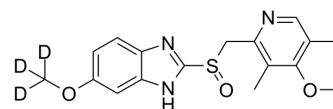
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Omeprazole-d₃

Cat. No.:	HY-B0113S
CAS No.:	922731-01-9
Molecular Formula:	C ₁₇ H ₁₆ D ₃ N ₃ O ₃ S
Molecular Weight:	348.43
Target:	Proton Pump; Bacterial; Autophagy
Pathway:	Membrane Transporter/Ion Channel; Anti-infection; Autophagy
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (358.75 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.8700 mL	14.3501 mL	28.7002 mL
		5 mM		0.5740 mL	2.8700 mL	5.7400 mL
		10 mM		0.2870 mL	1.4350 mL	2.8700 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.97 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.97 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Omeprazole-d ₃ is deuterium labeled Omeprazole. Omeprazole, 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 μM[1]. Omeprazole also inhibits growth of Gram-positive and Gram-negative bacteria[2].
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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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA