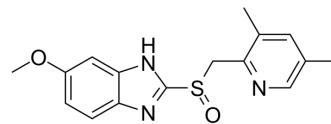


## 4-Desmethoxy Omeprazole

Cat. No.:	HY-135111
CAS No.:	110374-16-8
Molecular Formula:	C <sub>16</sub> H <sub>17</sub> N <sub>3</sub> O <sub>2</sub> S
Molecular Weight:	315.39
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

4-Desmethoxy Omeprazole is the active metabolite of 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  $\mu\text{M}$ <sup>[1]</sup>. Omeprazole also inhibits growth of Gram-positive and Gram-negative bacteria<sup>[2]</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.

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

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