

## Product Data Sheet

Product Name: Omeprazole N-oxide

Cat. No.: GC49780

### Chemical Properties

Cas. No. 176219-04-8

SMILES O=S(C1=NC2=CC=C(C=C2N1)OC)CC3=C(C)C(OC)=C(C)C=[N]3=O

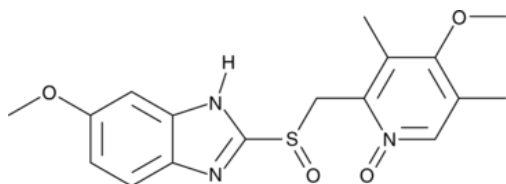
Formula C<sub>17</sub>H<sub>19</sub>N<sub>3</sub>O<sub>4</sub>S M.Wt 361.4

Solubility DMF: insol, DMSO: 1 mg/ml, Ethanol: Storage -20°C  
insol, PBS (pH 7.2): insol

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



### Background

Omeprazole N-oxide is a metabolite of the gastric proton pump inhibitor omeprazole.<sup>1</sup> It is also a potential impurity found in commercial preparations of omeprazole.<sup>2</sup>

1. Seshadri, R.K., Raghavaraju, T.V., and Chakravarthy, I.E. A single gradient stability-indicating reversed-phase LC method for the estimation of impurities in omeprazole and domperidone capsules. *Sci. Pharm.* 81(2)437-438(2013)  
2. Shirasaka, Y., Sager, J.E., Lutz, J.D., et al. Inhibition of CYP2C19 and CYP3A4 by omeprazole metabolites and their contribution to drug-drug interactions. *Drug Metab. Dispos.* 41(7)1414-1424(2013)

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

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