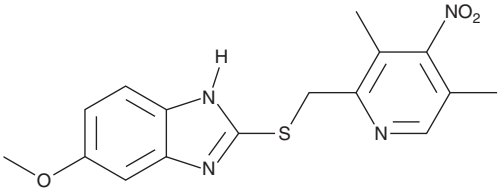
PRODUCT INFORMATION

4-desmethoxy-4-nitro Omeprazole sulfide

Item No. 45951

CAS Registry No.: 142885-91-4
Formal Name: 2-[[(3,5-dimethyl-4-nitro-2-pyridinyl)methyl]thio]-6-methoxy-1H-benzimidazole
Synonyms: 4-desmethoxy-4-nitro OMEP sulfide, 4-desmethoxy-4-nitro OMP sulfide, 4-desmethoxy-4-nitro OMZ sulfide
MF: $C_{16}H_{16}N_4O_3S$
FW: 344.4
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

4-desmethoxy-4-nitro Omeprazole sulfide is supplied as a solid. A stock solution may be made by dissolving the 4-desmethoxy-4-nitro omeprazole sulfide in the solvent of choice, which should be purged with an inert gas. 4-desmethoxy-4-nitro Omeprazole sulfide is sparingly soluble (1-10 mg/ml) in ethanol and DMSO.

Description

4-desmethoxy-4-nitro Omeprazole sulfide is an intermediate in the synthesis of omeprazole (Item No. 14880).[1]

Reference

1. Esfandyari, M., Heravi, M., Oskooie, H., *et al.* $H_3PW_{12}O_{40}$: An efficient and green catalyst for the facile and selective oxidation of sulfides to sulfoxides, applied to the last step of the synthesis of omeprazole. *Iran. J. Chem. Chem. Eng.* **36(4),** 21-29 (2017).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 07/15/2026

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM