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- Trockeneiszuschlag
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- Expressversand

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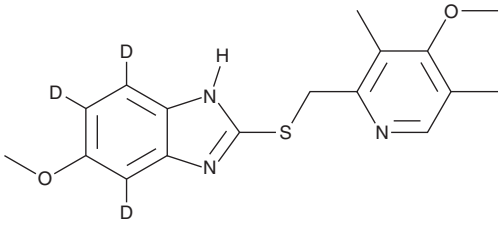
PRODUCT INFORMATION

Omeprazole sulfide-d_3

Item No. 40260

Formal Name:	6-methoxy-2-[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]thio]-1H-benzimidazole-d_3
Synonyms:	OMEP sulfide-d_3, OMP sulfide-d_3, OMZ sulfide-d_3, Pyrmetazole-d_3, Ufiprazole-d_3
MF:	$C_{17}H_{16}D_3N_3O_2S$
FW:	332.4
Chemical Purity:	≥98% (Omeprazole sulfide)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_3); ≤1% d_0
Supplied as:	A solid
Storage:	-20°C
Stability:	≥3 years



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

Laboratory Procedures

Omeprazole sulfide-d_3 is intended for use as an internal standard for the quantification of omeprazole sulfide (Item No. 18885) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Omeprazole sulfide-d_3 is supplied as a solid. A stock solution may be made by dissolving the omeprazole sulfide-d_3 in the solvent of choice, which should be purged with an inert gas. Omeprazole sulfide-d_3 is soluble in organic solvents such as acetonitrile and chloroform.

Description

Omeprazole sulfide is an active metabolite of the gastric H^+/K^+ ATPase inhibitor omeprazole (Item No. 14880).[1,2] Omeprazole sulfide has been used as a precursor in the synthesis of the H^+/K^+ ATPase inhibitor esomeprazole (Item No. 17303).[3] It is also a potential impurity in commercial preparations of omeprazole.[4]

References

1. Hoffmann, K.J. Identification of the main urinary metabolites of omeprazole after an oral dose to rats and dogs. *Drug Metab. Dispos.* **14(3)**, 341-348 (1986).
2. Ogilvie, B.W., Yerino, P., Kazmi, F., *et al.* The proton pump inhibitor, omeprazole, but not lansoprazole or pantoprazole, is a metabolism-dependent inhibitor of CYP2C19: Implications for coadministration with clopidogrel. *Drug Metab. Dispos.* **39(11)**, 2020-2033 (2011).
3. Cotton, H., Elebring, T., Larsson, M., *et al.* Asymmetric synthesis of esomeprazole. *Tetrahedron Asymmetry* **11(18)**, 3819-3825 (2000).
4. Iuga, C., Bojiţă, M., and Leucuţa, S.E. Development of a validated RP-HPLC method for separation and determination of process-related impurities of omeprazole in bulk drugs. *Farmacia* **57(5)**, 534-541 (2009).

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