PRODUCT INFORMATION



Normeperidine-d₄ (hydrochloride)

Item No. 18568

CAS Registry No.: 2749394-90-7

4-phenyl-4-piperidine-3,3,5,5-d₄-carboxylic Formal Name:

acid, ethyl ester, monohydrochloride

Norpethidine-d₄ Synonym: MF: C₁₄H₁₅D₄NO₂ • HCI

273.8 FW: **Purity:** ≥98% Supplied as: A neat solid Storage: -20°C Stability: ≥3 vears

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

Description

Normeperidine- d_A (hydrochloride) (Item No. 18568) is an analytical reference material intended for use as an internal standard for the quantification of normeperidine (Item Nos. 15285 | 20899) 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).

Normeperidine is categorized as a precursor in the synthesis of meperidine (Item No. 19406).¹ Normeperidine is also a metabolite of meperidine.² Normeperidine-d₁ is regulated as a Schedule II compound in the United States. This product is intended for research and forensic applications.

This product is qualified as a Reference Material that has been manufactured and tested to ISO/IEC 17025 and ISO 17034 international standards for reference materials.

References

- 1. Perrine, T.D. and Eddy, N.B. The preparation and analgesic activity of 4-carbethoxy-4-phenyl-1-(2-phenylethyl)piperidine and related compounds. J. Org. Chem. 21(1), 125-126 (1956).
- 2. Stillwell, W.G., Myran, C.S., and Stewart, J.T. Meperidine metabolites: Identification of N-hydroxynormeperidine and a hydroxy-methoxy derivative of meperidine in biological fluids. Res. Commun. Chem. Pathol. Pharmacol. 14(4), 605-619 (1976).

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

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

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