PRODUCT INFORMATION



Meperidine-d₅ (hydrochloride) (exempt preparation)

Item No. 23788

CAS Registry No.: 1330180-05-6

1-methyl-4-(phenyl-d₅)-4-piperidinecarboxylic acid, Formal Name:

ethyl ester, monohydrochloride

Synonym: Pethidine-d₅

C₁₅H₁₆D₅NO₂ • HCI MF:

FW: 288.8

Chemical Purity: ≥98% (Meperidine)

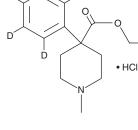
Deuterium

Incorporation: ≥99% deuterated forms (d_1-d_5) ; ≤1% d_0

Supplied as: A 1 mg/ml solution in methanol

-20°C Storage: Stability: ≥1 year

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



Description

Meperidine-d_s (hydrochloride) (exempt preparation) (Item No. 23788) is intended for use as an internal standard for the quantification of meperidine (Item No. 19406) 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).

Meperidine is categorized as an opioid.¹ It is an opioid analgesic that is commonly abused.² Meperidine is regulated as a Schedule II compound in the United States. Meperidine-d_c (hydrochloride) (exempt preparation) (Item No. 23788) is provided as a DEA exempt preparation. This product is intended for research and forensic applications.

References

- 1. Ossipov, M.H., Harris, S., Lloyd, P., et al. Antinociceptive interaction between opioids and medetomidine: Systemic additivity and spinal synergy. Anesthesiology 73(6), 1227-1235 (1990).
- 2. Atluri, S.A., Sudarshan, G., and Manchikanti, L. Assessment of the trends in medical use and misuse of opioid analgesics from 2004 to 2011. Pain Physician 17(2), E119-E128 (2014).

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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