N-Desmethyl-loperamide
Item No. 16126

CAS Registry No.: 66164-07-6
Formal Name: 4-(4-chlorophenyl)-4-hydroxy-N-methyl-α,α-di phenyl-1-piperidinebutanamide
Synonyms: dLop, R 20905
MF: C28H31ClN2O2
FW: 463.0
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

Laboratory Procedures
For long term storage, we suggest that N-desmethyl-loperamide (dLop) be stored as supplied at -20°C. It should be stable for at least two years.

dLop is supplied as a crystalline solid. A stock solution may be made by dissolving the dLop in the solvent of choice. dLop is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of dLop in these solvents is approximately 1 and 2 mg/ml, respectively.
dLop is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, dLop should first be dissolved in DMF and then diluted with the aqueous buffer of choice. dLop has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF-PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Loperamide (Item No. 14875) is an opiate which potently and selectively activates μ opioid receptors (Kᵢ = 0.16 nM) exclusively in the periphery.1,2 dLop is a major metabolite of loperamide.3,4 Like loperamide, dLop is a substrate of the ATP-dependent efflux transporter, P-glycoprotein.4,5 As a result, both the parent compound and the metabolite display restricted passage through the blood-brain barrier.2,6 dLop in biological samples can be analyzed by a variety of methods.3,7

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/16126

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent to your institution.

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