

Product Data Sheet

Product Name: Lornoxicam-d4

Cat. No.: GC48639

Chemical Properties

Cas. No. 1216527-48-8

SMILES OC(C1=C2C=C(S1)Cl)=C(C(NC3=C([2H])C([2H])=C([2H])C([2H])=N3)=O)N(C)S2(=O)=O

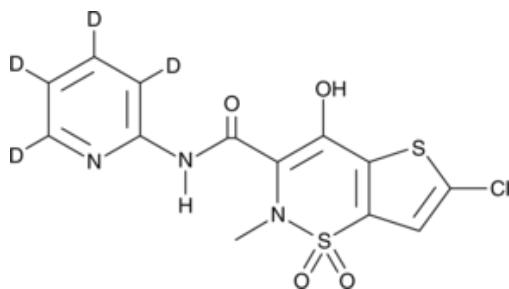
Formula C₁₃H₆ClD₄N₃O₄S₂ M.Wt 375.8

Solubility DMSO: 2 mg/ml Storage -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

Lornoxicam-d₄ is intended for use as an internal standard for the quantification of lornoxicam by GC- or LC-MS. Lornoxicam is a COX inhibitor and non-steroidal anti-inflammatory drug (NSAID) with anti-inflammatory and analgesic properties.¹ It inhibits production of thromboxane B₂ from arachidonic acid in HEL human erythroleukemic cells (IC₅₀ = 3 nM), which endogenously express COX-1, as well as inhibits LPS-induced formation of prostaglandin F_{1α} from arachidonic acid in Mono-Mac-6 cells (IC₅₀ = 8 nM), which endogenously express COX-2. Lornoxicam reduces LPS-induced production of nitric oxide and IL-6 in cell-based assays with IC₅₀ values of 65 and 54 μM, respectively. It reduces carrageenan-induced paw edema in rats when administered intravenously at doses ranging from 0.1 to 9 mg/kg.² Formulations containing lornoxicam have been used in the

Caution: Product has not been fully validated for medical applications. For research use only.

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management of postoperative pain.

1. Berg, J., Fellier, H., Christoph, T., et al. The analgesic NSAID lornoxicam inhibits cyclooxygenase (COX)-1/-2, inducible nitric oxide synthase (iNOS), and the formation of interleukin (IL)-6 in vitro. *Inflamm. Res.* 48(7):369-379 (1999)
2. Buritova, J., and Besson, J.M. Potent anti-inflammatory/analgesic effects of lornoxicam in comparison to other NSAIDs: A c-Fos study in the rat. *Inflammopharmacology* 5(4):331-341 (1997)

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