

Product Data Sheet

Product Name: Meclizine-d8 (hydrochloride)

Cat. No.: GC47616

Chemical Properties

Cas. No. 1432062-16-2

SMILES CC1=CC=CC(CN(C([2H])([2H])C2([2H])([2H])C([2H])([2H])C([2H])([2H])N2C(C3=CC=CC=C3)C4=CC=C(Cl)C=C4)=C1.Cl.Cl

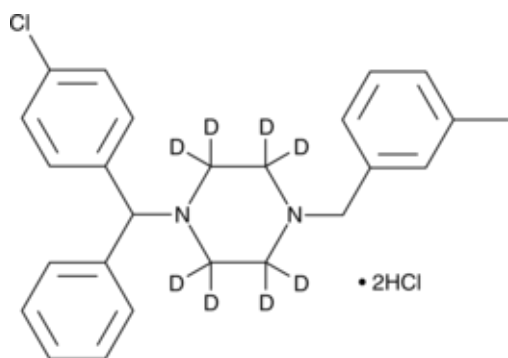
Formula C₂₅H₁₉ClD₈N₂·2HCl M.Wt 471.9

Solubility Chloroform: slightly soluble, Methanol: slightly soluble Storage Store at -20°C

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

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

Structure



Background

Meclizine-d₈ is intended for use as an internal standard for the quantification of meclizine by GC- or LC-MS. Meclizine is a histamine H₁ receptor antagonist ($K_i = 250$ nM).¹ Pretreatment with meclizine (2.5-30 mg/kg, i.p.) reduces ovalbumin-induced mast cell degranulation, edema, and leukocyte influx in rat lung.² Formulations containing meclizine have been used in the treatment of motion sickness and vertigo.

1. Tran, V.T., Chang, R.S.L., and Snyder, S.H. Histamine H₁ receptors identified in mammalian brain

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

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membranes with [3H]mepyramine Proc. Natl. Acad. Sci. U.S.A. 75(12)6290-6294(1978) 2. Pasquale, C.P., e Silva, P.M., Lima, M.C., et al. Suppression by cetirizine of pleurisy triggered by antigen in actively sensitized rats Eur. J. Pharmacol. 223(1)9-14(1992)

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