

Product Data Sheet

Product Name: Labetalol-d5 (hydrochloride)

Cat. No.: GC47534

Chemical Properties

Cas. No. 2713514-78-2

SMILES OC1=CC=C(C(CNC(C)CCC2=C([2H])C([2H])=C([2H])C([2H])=C2[2H])O)C=C1C(N)=O.Cl

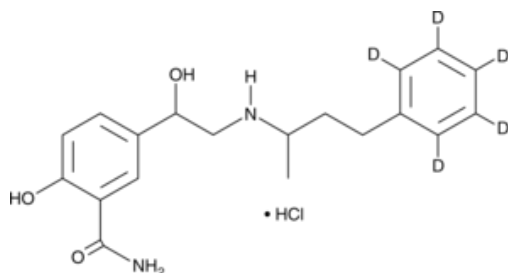
Formula C₁₉H₁₉D₅N₂O₃.HCl M.Wt 369.9

Solubility DMSO: Soluble, Methanol: Soluble Storage Store at -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

Labetalol-d₅ is intended for use as an internal standard for the quantification of labetalol by GC- or LC-MS. Labetalol is an adrenergic receptor (AR) antagonist.¹ It inhibits agonist-induced contraction of rabbit aortic strips, decreases in contractile force in isolated guinea pig atria, and vasorelaxation in isolated guinea pig tracheal strips (pA₂s = 6.99, 7.68, and 7.54, respectively), tissues that endogenously express high levels of α-, β₁-, and β₂-ARs, respectively. Labetalol (2.5-25 mg/kg) reduces blood pressure in spontaneously hypertensive rats. It reduces blood pressure in DOC-salt

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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rats, two-kidney Goldblatt rats, and one-kidney dogs. Labetalol (5 mg/kg) reduces infarct size in a dog model of myocardial infarction induced by occlusion of the left anterior descending artery. Topical administration of labetalol (0.25-1% v/v) reduces intraocular pressure in rabbits. Formulations containing labetalol have been used in the treatment of hypertension.

1. Baum, T., and Sybertz, E.J. Pharmacology of labetalol in experimental animals Am. J. Med. 75(4A)15-23(1983)

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