

Product Data Sheet

Product Name: (±)-Clorprenaline-d7

Cat. No.: GC46283

Chemical Properties

Cas. No. 2748354-86-9

SMILES C1C1=C(C(O)CNC(C([2H])([2H])[2H])(C([2H])([2H])[2H])[2H])C=CC=C1

Formula C₁₁H₉ClD₇NO

M.Wt 220.7

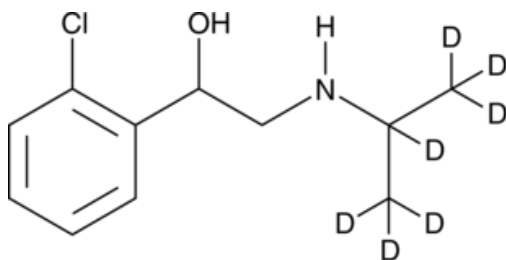
Solubility Chloroform: soluble

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

(±)-Clorprenaline-d7 is intended for use as an internal standard for the quantification of clorprenaline by GC- or LC-MS. Clorprenaline is a β_2 -adrenergic receptor agonist.¹ It reverses pilocarpine-induced constriction of isolated guinea pig trachea, rabbit lung, and bronchi of pithed dogs.² It has been detected in pork, beef, mutton, and chicken muscle food samples by UPLC-Q-orbitrap-HRMS.¹ Formulations containing clorprenaline have been used as partitioning agents and growth promoters in livestock.

1. Guo, C., Shi, F., Gong, L., et al. Ultra-trace analysis of 12 β_2 -agonists in pork, beef, mutton and chicken by ultrahigh-performance liquid-chromatography-quadrupole-orbitrap tandem mass spectrometry. *J. Pharm. Biomed. Anal.* 107:526-534 (2015). 2. Powell, C.E., Gibson, W.R., and Swanson, E.E. The pharmacological action of 1-o-chlorophenyl-2-isopropylaminoethanol (isoprophenamine); A

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

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bronchodilator J. Am. Pharm. Assoc. 45(12)785-787(1956)

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