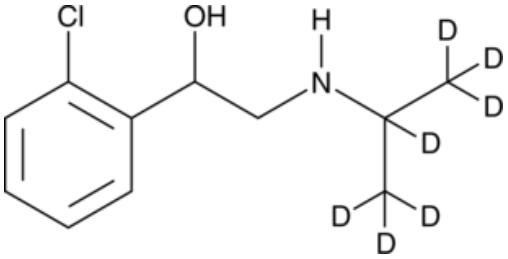
# Product Data Sheet

Product Name: (±)-Clorprenaline-d7
Cat. No.: GC46283

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 2748354-86-9 | | |
| SMILES | ClC1=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-$d_7$ is intended for use as an internal standard for the quantification of clorprenaline by GC- or LC-MS. Clorprenaline is a $\beta_2$-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 β2-agonists in pork, beef, mutton and chicken by ultrahigh-performance liquid-chromatography-quadrupole-orbitrap tandem mass spectrometryJ. Pharm. Biomed. Anal.107526-534(2015) 2.Powell, C.E., Gibson, W.R., and Swanson, E.E.The pharmacological action of 1-o-chlorophenyl-2-isopropylaminoethanol (isoprophenamine); A

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