

Product Data Sheet

Product Name: Carazolol-d7

Cat. No.: GC49564

Chemical Properties

Cas. No. 1173021-02-7

SMILES OC(CNC(C([2H])([2H])[2H])([2H])C([2H])([2H])[2H])COC1=C(C(C=CC=C2)=C2N3)C3=CC=C1

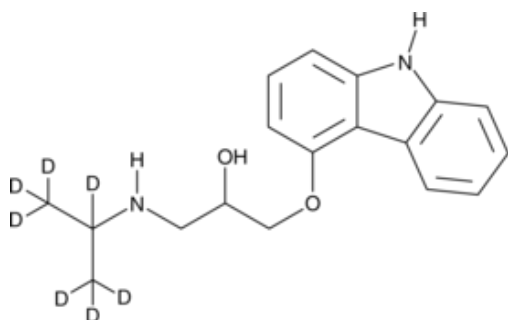
Formula C₁₈H₁₅D₇N₂O₂ M.Wt 305.4

Solubility DMSO : 100 mg/mL (327.42 mM; Storage -20°C
Need ultrasonic)

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

Carazolol-d7 is intended for use as an internal standard for the quantification of carazolol by GC- or LC-MS. Carazolol is a β -adrenergic receptor (β -AR) ligand (K_{ds} = 0.2, 0.03, and 4.47 nM for the human β_1 -, β_2 -, and β_3 -ARs, respectively).¹ It reduces epinephrine-induced increases in mean arterial blood pressure and heart rate in conscious pigs when administered at a dose of 10 μ g/kg.² Carazolol has been found in wastewater effluent.³ Formulations containing carazolol have been used to reduce stress in livestock during transport.

1. Baker, J.G. The selectivity of β -adrenoceptor agonists at human β_1 -, β_2 - and β_3 -adrenoceptors Br.

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

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J. Pharmacol.160(5)1048-1061(2010) 2.Gregory, N.G., and Wilkins, L.J.The effect of carazolol on the cardiovascular responses to adrenaline in stress sensitive pigsVet. Res. Commun.5(3)277-283(1982)
3.Ternes, T.A.Occurrence of drugs in German sewage treatment plants and riversWater Res.32(11)3245-3260(1998)

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