

Product Data Sheet

Product Name: Sumatriptan-d₆ (succinate)

Cat. No.: GC48117

Chemical Properties

Cas. No. 1397195-80-0

SMILES O=C(CCC(O)=O)O.CNS(CC1=CC=C(NC=C2CCN(C([2H])([2H])[2H])C([2H])([2H])[2H])C2=C1)(=O)=O.CNS(CC3=CC=C(NC=C4CCN(C([2H])([2H])[2H])C([2H])([2H])[2H])C4=C3)(=O)=O

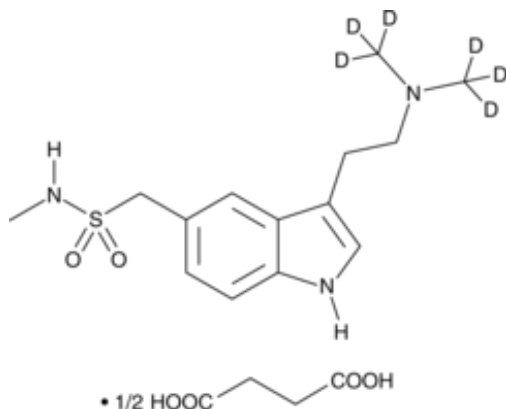
Formula C₁₄H₁₅D₆N₃O₂S.1/2C₄H₆O₄ M.Wt 360.4

Solubility H₂O : 100 mg/mL (238.36 mM; Need ultrasonic and warming) 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

Sumatriptan-d₆ is intended for use as an internal standard for the quantification of sumatriptan by GC- or LC-MS. Sumatriptan is an agonist of the serotonin (5-HT) receptor subtypes 5-HT_{1B} and 5-HT_{1D} (IC₅₀s = 9.3 and 7.3 nM, respectively).¹ It also binds to the 5-HT_{1F} receptor (IC₅₀ = 17.8 nM). It induces vasoconstriction in isolated human middle meningeal arteries (EC₅₀ = 89.9 nM), an effect that can be reduced by the 5-HT_{1B/1D} receptor antagonists GR125743 and GR127935 . Sumatriptan

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

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reduces acute, but not chronic, mechanical hyperalgesia in a mouse model of pain induced by nitroglycerin, which is a known migraine trigger in humans.² Formulations containing sumatriptan have been used in the treatment of migraine headache.

1.Razzaque, Z., Heald, M.A., Pickard, J.D., et al.Vasoconstriction in human isolated middle meningeal arteries: Determining the contribution of 5-HT1B- and 5-HT1F-receptor activationBr. J. Pharmacol.47(1)75-82(1999) 2.Pradhan, A., Smith, M.L., McGuire, B., et al.Characterization of a novel model of chronic migrainePain155(2)269-274(2014)

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