Proteins

Inhibitors

Product Data Sheet

Sumatriptan-d₆ succinate

Cat. No.: HY-B0121BS CAS No.: 1215621-31-0 Molecular Formula: $C_{18}H_{21}D_6N_3O_6S$

Molecular Weight: 419.53

Target: 5-HT Receptor; Isotope-Labeled Compounds Pathway: GPCR/G Protein; Neuronal Signaling; Others -20°C, sealed storage, away from moisture Storage:

* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

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

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.3836 mL	11.9181 mL	23.8362 mL
	5 mM	0.4767 mL	2.3836 mL	4.7672 mL
	10 mM	0.2384 mL	1.1918 mL	2.3836 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description Sumatriptan-d6 succinate is the deuterium labeled Sumatriptan succinate. Sumatriptan succinate is an orally active 5-HT1

receptor agonist with Kis of 17 nM, 27 nM and 100 nM for 5-HT1D, 5-HT1B and 5-HT1A receptors, respectively. Sumatriptan

succinate can be used for migraine headache research [1][2][3].

In Vitro Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as

tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to

affect the pharmacokinetic and metabolic profiles of drugs^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

[2]. S J Peroutka, et al. Sumatriptan (GR 43175) interacts selectively with 5-HT1B and 5-HT1D binding sites. Eur J Pharmacol. 1989 Apr 12;163(1):133-6.

3]. K L Dechant, et al. Sumatriptan. A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic efficacy in the acute treatment of migraine and cluster headache. Drugs. 1992 May;43(5):776-98.							
	Caution: Product has no	ot been fully validated for me	dical applications. For research use	only.			
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