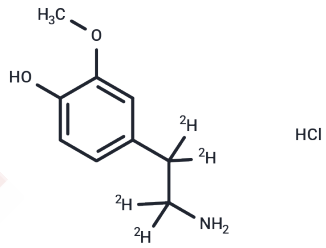
Data Sheet (Cat.No.TMIH-0047)

TargetMol

3-Methoxy Dopamine-D4 hydrochloride

Chemical Properties



CAS No. : 1216788-76-9

Formula: C9H10D4ClNO2

Molecular Weight: 207.69

Storage: Keep away from direct sunlight,Store at low temperature,Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	3-Methoxy Dopamine-D4 hydrochloride is a deuterated methoxytyramine hydrochloride (TMSM-0241).
Targets(IC50)	Endogenous Metabolite,Drug Metabolite

Solubility Information

Solubility	DMSO: 80 mg/mL (385.19 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (4.81 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8149 mL	24.0743 mL	48.1487 mL
5 mM	0.963 mL	4.8149 mL	9.6297 mL
10 mM	0.4815 mL	2.4074 mL	4.8149 mL
50 mM	0.0963 mL	0.4815 mL	0.963 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.
Sotnikova TD, et al. The dopamine metabolite 3-methoxytyramine is a neuromodulator. PLoS One. 2010 Oct 18;5(10):e13452.
Guldberg HC, et al. Some observations on the estimation of 3-methoxytyramine in brain tissue. Br J Pharmacol. 1971 Aug;42(4):505-11.