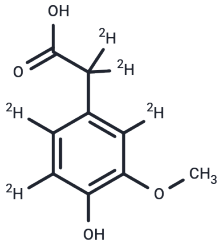
Data Sheet (Cat.No.TMIH-0262)

TargetMol

Homovanillic acid-D5

Chemical Properties



CAS No. : 53587-32-9

Formula: C9H15D5O4

Molecular Weight: 187.2

Storage: Keep away from direct sunlight,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	Homovanillic acid-D5 is a deuterated Homovanillic acid, which can be used to study the metabolism of Homovanillic acid (T3S0507) in vivo. Homovanillic acid (T3S0507) is a dopamine metabolite, which is an indicator of central dopamine function in primates. Homovanillic acid (T3S0507) is a dopamine metabolite and an indicator of central dopamine function in primates.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 80 mg/mL (427.35 mM),Sonication is recommended. H2O: 5 mg/mL (26.71 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: 3.3 mg/mL (17.63 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	5.3419 mL	26.7094 mL	53.4188 mL
5 mM	1.0684 mL	5.3419 mL	10.6838 mL
10 mM	0.5342 mL	2.6709 mL	5.3419 mL
50 mM	0.1068 mL	0.5342 mL	1.0684 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.