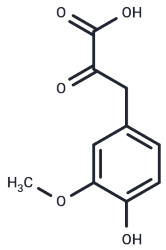
Data Sheet (Cat.No.T19600)

TargetMol

Vanilpyruvic acid

Chemical Properties



CAS No. : 1081-71-6

Formula: C10H10O5

Molecular Weight: 210.18

Storage: 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	Vanillylpyruvic acid is a phenylpyruvic acid derivative applicable in biochemical experiments and drug synthesis research.
Targets(IC50)	Others,Opioid Receptor,Endogenous Metabolite,Adrenergic Receptor,Drug Metabolite, Monoamine Transporter

Solubility Information

Solubility	DMSO: 21 mg/mL (99.91 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: 2 mg/mL (9.52 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	4.7578 mL	23.7891 mL	47.5783 mL
5 mM	0.9516 mL	4.7578 mL	9.5157 mL
10 mM	0.4758 mL	2.3789 mL	4.7578 mL
50 mM	0.0952 mL	0.4758 mL	0.9516 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

Eisenhofer G, et al. Catecholamine metabolism: a contemporary view with implications for physiology and medicine. Pharmacol Rev. 2004 Sep;56(3):331-49.
Bicker J, et al. Liquid chromatographic methods for the quantification of catecholamines and their metabolites in several biological samples--a review. Anal Chim Acta. 2013 Mar 20;768:12-34.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481