Data Sheet (Cat.No.T35972)

TargetMol

4-Hydroxy-hippuric acid

Chemical Properties

CAS No. : 2482-25-9

Formula: C9H9NO4

Molecular Weight: 195.172

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	4-Hydroxy-hippuric acid is a secondary metabolite formed from polyphenol breakdown, detectable in humans. 4-Hydroxy-hippuric acid is associated with health conditions such as uremia and eosinophilic esophagitis, making it relevant for metabolic and clinical biomarker studies.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMF: 1.00 mg/mL (5.12 mM),Sonication is recommended. DMF:PBS (pH 7.2) (1:10): 0.09 mg/mL (0.46 mM),Sonication is recommended. DMSO: 80.00 mg/mL (409.89 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: 2.00 mg/mL (10.25 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	5.1237 mL	25.6187 mL	51.2374 mL
5 mM	1.0247 mL	5.1237 mL	10.2475 mL
10 mM	0.5124 mL	2.5619 mL	5.1237 mL
50 mM	0.1025 mL	0.5124 mL	1.0247 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

Allison I Daniel, et al. Urinary Organic Acids Increase After Clinical Stabilization of Hospitalized Children With Severe Acute Malnutrition. Food Nutr Bull. 2019 Dec;40(4):532-543.