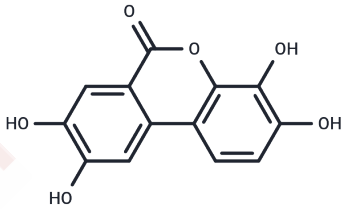
Data Sheet (Cat.No.T74005)

TargetMol

Urolithin D

Chemical Properties



CAS No. : 131086-98-1

Formula: C13H8O6

Molecular Weight: 260.2

Storage: Store at low temperature
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	Urolithin D is a competitive and selective reversible antagonist of the EphA receptor, an ellagitannin colonic metabolite that inhibits EphA2 phosphorylation in prostate cancer cells, attenuates triglyceride accumulation in adipocytes and hepatocyte cultures, and may be used in the study of metabolic disorders.
Targets(IC50)	AMPK,Ephrin Receptor,PPAR

Solubility Information

Solubility	DMSO: 155 mg/mL (595.7 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: 10 mg/mL (38.43 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (38.43 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *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	3.8432 mL	19.216 mL	38.432 mL
5 mM	0.7686 mL	3.8432 mL	7.6864 mL
10 mM	0.3843 mL	1.9216 mL	3.8432 mL
50 mM	0.0769 mL	0.3843 mL	0.7686 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

Giorgio C, et al. The ellagitannin colonic metabolite urolithin D selectively inhibits EphA2 phosphorylation in prostate cancer cells. Mol Nutr Food Res. 2015 Nov;59(11):2155-67.