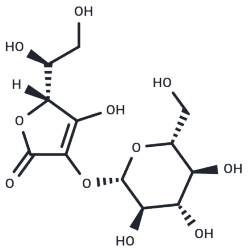
Data Sheet (Cat.No.T10077)

TargetMol

2-O-β-D-Glucopyranosyl-L-ascorbic acid

Chemical Properties



CAS No. : 562043-82-7

Formula: C12H18O11

Molecular Weight: 338.26

Storage: Keep away from direct sunlight
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	2-O-β-D-Glucopyranosyl-L-ascorbic acid (AA-2βG) is a natural and stable vitamin C analog that induces apoptosis and cell cycle arrest in cancer cells by stabilizing p53 protein.
Targets(IC50)	Apoptosis,Cell Cycle Arrest,p53

Solubility Information

Solubility	H2O: ≥ 200 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9563 mL	14.7815 mL	29.5631 mL
5 mM	0.5913 mL	2.9563 mL	5.9126 mL
10 mM	0.2956 mL	1.4782 mL	2.9563 mL
50 mM	0.0591 mL	0.2956 mL	0.5913 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

Zhang Z, et al. Selective suppression of cervical cancer Hela cells by 2-O-β-D-glucopyranosyl-L-ascorbic acid isolated from the fruit of Lycium barbarum L. Cell Biol Toxicol. 2011 Apr;27(2):107-21.

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