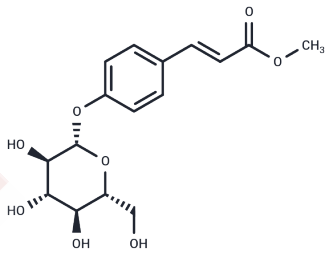
Data Sheet (Cat.No.TN7075)

TargetMol

Linocinnamarin

Chemical Properties



CAS No. : 554-87-0

Formula: C16H20O8

Molecular Weight: 340.33

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	Linocinnamarin (3-[4-(beta-D-Glucopyranosyloxy)phenyl]acrylic acid methyl ester) is isolated from Fragaria ananassa Duch. (strawberry). The inhibition of antigen-stimulated degranulation by LN is mainly due to inactivation of Syk/phospholipase Cgamma (PLCgamma) pathways.
Targets(IC50)	Reactive Oxygen Species,Syk,Phospholipase,ROS

Solubility Information

Solubility	DMSO: 50 mg/mL (146.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9383 mL	14.6916 mL	29.3832 mL
5 mM	0.5877 mL	2.9383 mL	5.8766 mL
10 mM	0.2938 mL	1.4692 mL	2.9383 mL
50 mM	0.0588 mL	0.2938 mL	0.5877 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

Ninomiya M, Itoh T, et al. Phenolic constituents isolated from Fragaria ananassa Duch. inhibit antigen-stimulated degranulation through direct inhibition of spleen tyrosine kinase activation. Bioorg Med Chem. 2010 Aug 15;18 (16):5932-7.

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