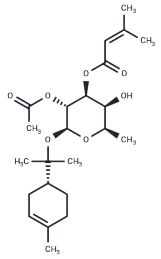
Data Sheet (Cat.No.TN7256)

TargetMol

Venuloside A

Chemical Properties



CAS No. : 1609278-97-8

Formula: C23H36O7

Molecular Weight: 424.53

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	Venuloside A (ESK246) is a monosaccharide glycoside natural product derived from Pittosporum venulosum. Venuloside A is a selective LAT3 inhibitor that blocks LAT3-mediated leucine transport, with an IC_{50} of 8.12 μM. Venuloside A can be used in prostate cancer research.
Targets(IC50)	transporter
In vitro	**Methods**: Add 50 μM Venuloside A to African clawed frog oocytes, treat for 30 minutes, and measure inhibition of [^{3}H]-L-leucine uptake. **Results**: Venuloside A preferentially inhibits LAT3-mediated leucine transport with no significant inhibition of LAT1. [1]

Solubility Information

Solubility	DMSO: 245 mg/mL (577.11 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3555 mL	11.7777 mL	23.5555 mL
5 mM	0.4711 mL	2.3555 mL	4.7111 mL
10 mM	0.2356 mL	1.1778 mL	2.3555 mL
50 mM	0.0471 mL	0.2356 mL	0.4711 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

Wang Q, et al. Monoterpene glycoside ESK246 from Pittosporum targets LAT3 amino acid transport and prostate cancer cell growth. ACS Chem Biol. 2014 Jun 20;9(6):1369-76.

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