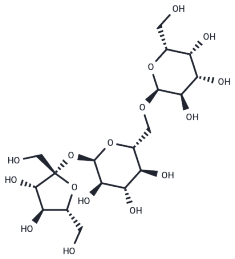
Data Sheet (Cat.No.T8144)

TargetMol

Raffinose

Chemical Properties



CAS No. : 512-69-6

Formula: C18H32O16

Molecular Weight: 504.44

Storage: Keep away from direct sunlight,Keep away from moisture
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	Raffinose (Melitriose) is an indigestible short-chain oligosaccharide, a trisaccharide composed of galactose, glucose and fructose, found in many plants. It can be hydrolyzed by α-galactosidase (α-GAL) to D-galactose and sucrose.
Targets(IC50)	NF-κB,Nrf2,Endogenous Metabolite,Autophagy,MyD88,TLR

Solubility Information

Solubility	DMSO: 100 mg/mL (198.24 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: 4 mg/mL (7.93 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	1.9824 mL	9.912 mL	19.824 mL
5 mM	0.3965 mL	1.9824 mL	3.9648 mL
10 mM	0.1982 mL	0.9912 mL	1.9824 mL
50 mM	0.0396 mL	0.1982 mL	0.3965 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

Na T Y , Kim G H , Oh H J , et al. The trisaccharide raffinose modulates epidermal differentiation through activation of liver X receptor[J]. Scientific Reports, 2017, 7:43823.