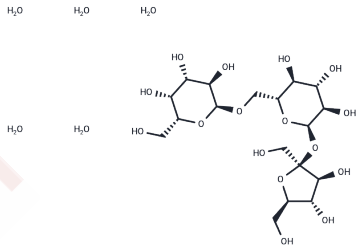
Data Sheet (Cat.No.T3S0309)

TargetMol

D(+)-Raffinose pentahydrate

Chemical Properties



CAS No. : 17629-30-0

Formula: C18H32O16.5H2O

Molecular Weight: 594.51

Storage: Store under nitrogen
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	D(+)-Raffinose pentahydrate (D-Raffinose pentahydrate) is a naturally occurring trisaccharide composed of fructose, galactose, and glucose, found in various vegetables and grains. It functions as a functional oligosaccharide.
Targets(IC50)	Endogenous Metabolite,Antibacterial,Interleukin,PDE,Transferase

Solubility Information

Solubility	DMSO: 55 mg/mL (92.51 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: 2 mg/mL (3.36 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	1.6821 mL	8.4103 mL	16.8206 mL
5 mM	0.3364 mL	1.6821 mL	3.3641 mL
10 mM	0.1682 mL	0.841 mL	1.6821 mL
50 mM	0.0336 mL	0.1682 mL	0.3364 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

Guaragnella N, et al. Yeast growth in raffinose results in resistance to acetic-acid induced programmed cell death mostly due to the activation of the mitochondrial retrograde pathway[J]. Biochimica et Biophysica Acta (BBA) - Molecular Cell Research, 2013, 1833(12):2765-2774.

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