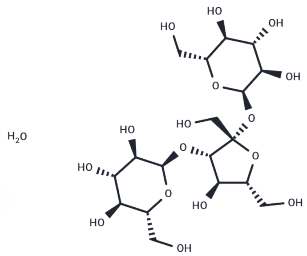
Data Sheet (Cat.No.T3016)

TargetMol

D-(+)-Melezitose hydrate

Chemical Properties



CAS No. : 207511-10-2

Formula: C18H34O17

Molecular Weight: 522.45

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	D-(+)-Melezitose hydrate (melicitose) is a nonreducing trisaccharide sugar that is produced by many plant sap-eating insects, including aphids such as Cinara pilicornis by an enzyme reaction.
Targets(IC50)	Antibacterial
Kinase Assay	FlashPlate assay (96-well screening assay): To columns 1 through 10, 1 μL of Olaparib (in DMSO) is added, and 1 μL DMSO only is added to the positive (POS) and negative (NEG) control wells (columns 11 and 12, respectively) of a pretreated FlashPlate. PARP-1 is diluted 1:40 in buffer (buffer B: 10% glycerol (v/v), 25 mM HEPES, 12.5 mM MgCl2,50 mM KCl, 1 mM DTT, 0.01% NP-40 (v/v), pH 7.6) and 40 μL added to all 96 wells (final PARP-1 concentration in the assay is ~1 ng/μL). The plate is sealed and shaken at RT for 15 min. Following this, 10 μL of positive reaction mix (0.2 ng/μL of double-stranded oligonucleotide [M3/M4] DNA per well, 5 μM of NAD+ final assay concentration, and 0.075 μCi 3H-NAD+ per well) is added to the appropriate wells (columns 1-11). The negative reaction mix, lacking the DNA oligonucleotide, is added to column 12 (with the mean negative control value used as the background). The plate is resealed and shaken for a further 60 min at RT to allow the reaction to continue. Then, 50 μL of ice-cold acetic acid (30%) is added to each well to stop the reaction, and the plate is sealed and shaken for a further 60 min at RT. Tritiated signal bound to the FlashPlate is then determined in counts per minute (CPM) using the TopCount plate reader.

Solubility Information

Solubility	DMSO: 60 mg/mL (114.84 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9141 mL	9.5703 mL	19.1406 mL
5 mM	0.3828 mL	1.9141 mL	3.8281 mL
10 mM	0.1914 mL	0.957 mL	1.9141 mL
50 mM	0.0383 mL	0.1914 mL	0.3828 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.

Reference

Carvalho L,et al. Eur J Pharm Biopharm. 2015 May;92:139-45.