Data Sheet (Cat.No.T3016)

TargetMol

D-(+)-Melezitose hydrate

Chemical Properties

CAS No. : 207511-10-2

Formula: C18H32O16.xH2O

Molecular Weight:

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	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: 260 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL,Solution. *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.*

Reference

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

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