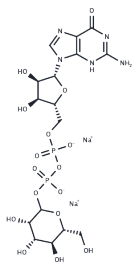
Data Sheet (Cat.No.T65209)

TargetMol

GDP-D-mannose disodium

Chemical Properties



CAS No. : 103301-73-1

Formula: C16H23N5Na2O16P2

Molecular Weight: 649.31

Storage: 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	GDP-D-mannose disodium consists of GDP-α-D-mannose and GDP-β-D-mannose. GDP-α-D-mannose serves as a donor substrate for mannosyltransferases and a precursor for GDP-β-L-fucose biosynthesis. It competitively inhibits GTP with a Ki of 14.7 μM and non-competitively inhibits mannose-1-P with a Ki of 115 μM.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 9.41 mg/mL (14.49 mM),Sonication is recommended. H2O: 80.00 mg/mL (123.21 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5401 mL	7.7005 mL	15.401 mL
5 mM	0.308 mL	1.5401 mL	3.0802 mL
10 mM	0.154 mL	0.770 mL	1.5401 mL
50 mM	0.0308 mL	0.154 mL	0.308 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

Elling L, et al. Expression, purification and characterization of recombinant phosphomannomutase and GDP-alpha-D-mannose pyrophosphorylase from Salmonella enterica, group B, for the synthesis of GDP-alpha-D-mannose from D-mannose. Glycobiology. 1996 Sep;6(6):591-7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481