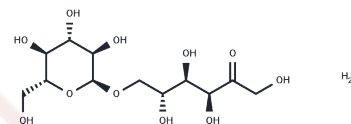


Isomaltulose monohydrate

Chemical Properties

CAS No. :	58024-13-8
Formula:	C ₁₂ H ₂₄ O ₁₂
Molecular Weight:	360.31
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	Isomaltulose monohydrate is an fMLP inhibitor that also inhibits Src kinase, ERK1/2, p38, and AKT phosphorylation signals in immune regulation. It interferes with the interaction between the βγ subunit of the fMLP receptor Gi protein and downstream molecules, thereby inhibiting fMLP-induced respiratory burst. Isomaltulose monohydrate inhibits fMLP (0.1 μM)-induced superoxide anion production (IC ₅₀ : 1.98 μM), cathepsin G release (IC ₅₀ : 2.76 μM), and chemotaxis. It can improve excessive activation of neutrophils and reduce inflammation or tissue damage. Derivatives of Isomaltulose monohydrate have been found to inhibit FSGS-related TRPC6 functional mutants [1].
Targets(IC50)	ERK,Akt,p38 MAPK,Src

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7754 mL	13.8769 mL	27.7539 mL
5 mM	0.5551 mL	2.7754 mL	5.5508 mL
10 mM	0.2775 mL	1.3877 mL	2.7754 mL
50 mM	0.0555 mL	0.2775 mL	0.5551 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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