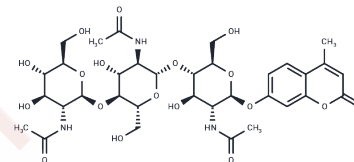


4-Methylumbelliferyl- β -D-N,N',N''-Triacetylchitotrioside

Chemical Properties

CAS No. :	53643-13-3
Formula:	C34H47N3O18
Molecular Weight:	785.75
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	4-Methylumbelliferyl- β -D-N,N',N''-triacetylchitotrioside is a fluorogenic substrate for chitinases and chitotriosidases. 4-Methylumbelliferyl- β -D-N,N',N''-triacetylchitotrioside is cleaved by chitinases and chitotriosidases to release the fluorescent moiety 4-methylumbelliferyl (4-MU). 4-MU fluorescence is pH-dependent with excitation maxima of 320 and 360 nm at low (1.97-6.72) and high (7.12-10.3) pH, respectively, and an emission maximum ranging from 445 to 455 nm, increasing as pH decreases. It has been used to screen plasma samples for reduced chitotriosidase activity that may be indicative of lysosomal storage disorders.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 10 mg/mL (12.73 mM), Sonication is recommended. DMF: 5 mg/mL (6.36 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2727 mL	6.3633 mL	12.7267 mL
5 mM	0.2545 mL	1.2727 mL	2.5453 mL
10 mM	0.1273 mL	0.6363 mL	1.2727 mL
50 mM	0.0255 mL	0.1273 mL	0.2545 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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