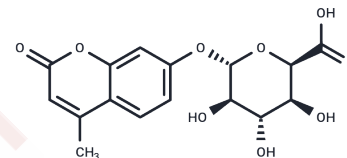


4-Methylumbelliferyl- α -L-Iduronide

Chemical Properties

CAS No. :	66966-09-4
Formula:	C ₁₆ H ₁₆ O ₉
Molecular Weight:	352.29
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	4-Methylumbelliferyl- α -L-Iduronide is a common substrate for α -L-iduronidase catalytic activity.
Targets(IC50)	Others
In vitro	Using 4-Methylumbelliferyl- α -L-Iduronide as a substrate, α -L-Iduronidase activity was measured in leukocytes and lymphoblasts obtained from patients with α -L-Iduronidase acid deficiency and obligate heterozygotes for the disease. α -L-Iduronidase activity in leukocytes and lymphoblasts from patients and controls was completely different. However, an overlap in activity values was observed in obligate heterozygotes and controls. 4-Methylumbelliferyl- α -L-Iduronide activity has a higher sensitivity, a simpler detection procedure, and a shorter latency period.[1]

Solubility Information

Solubility	Ethanol: 1 mg/mL (2.84 mM),Sonication is recommended. DMSO: 1 mg/mL (2.84 mM),Sonication is recommended. Methanol: 1 mg/mL (2.84 mM),Sonication is recommended. DMF: 1 mg/mL (2.84 mM),Sonication is recommended. PBS (pH 7.2): 1 mg/mL (2.84 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	2.8386 mL	14.1929 mL	28.3857 mL
5 mM	0.5677 mL	2.8386 mL	5.6771 mL
10 mM	0.2839 mL	1.4193 mL	2.8386 mL
50 mM	0.0568 mL	0.2839 mL	0.5677 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

Minami R, et al. Fluorometric measurement of alpha-L-iduronidase activity using 4-methylumbelliferyl-alpha-L-iduronide. Tohoku J Exp Med. 1980 Apr;130(4):381-4.

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