

4-Methylumbelliferyl β -D-Galactopyranoside-6-sulfate (sodium salt)

Chemical Properties

CAS No. : 206443-06-3

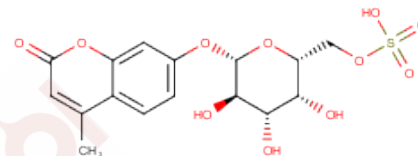
Formula: C₁₆H₁₇NaO₁₁S

Molecular Weight: 440.35

Keep away from direct sunlight

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-Galactopyranoside-6-sulfate (sodium salt) (4-MU-Gal-6S) is a fluorogenic substrate used to quantify N-acetylgalactosamine-6-sulphatase (GALNS) activity. 4-MU-Gal-6S is cleaved by GALNS to release the fluorescent moiety 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 detect Morquio disease type A, a lysosomal storage disorder in which GALNS is deficient. 4-MU-Gal-6S can be used to assess GALNS activity in a very small blood volume to determine the extent of deficiency.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 30 mg/mL (68.13 mM),Sonication is recommended. PBS (pH 7.2): 10 mg/mL (22.71 mM),Sonication is recommended. DMF: 30 mg/mL (68.13 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	2.2709 mL	11.3546 mL	22.7092 mL
5 mM	0.4542 mL	2.2709 mL	4.5418 mL
10 mM	0.2271 mL	1.1355 mL	2.2709 mL
50 mM	0.0454 mL	0.2271 mL	0.4542 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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