

4-Methylumbelliferyl 2-sulfamino-2-deoxy- $\alpha$ -D-Glucopyranoside (sodium salt)

## Chemical Properties

CAS No. : 460085-45-4

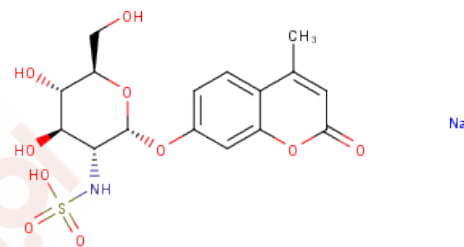
Formula: C<sub>16</sub>H<sub>18</sub>NNaO<sub>10</sub>S

Molecular Weight: 439.37

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 2-sulfamino-2-deoxy- $\alpha$ -D-Glucopyranoside (4-MU- $\alpha$ -GlcNS) is a fluorogenic substrate of heparin sulphamidase. Heparin sulphamidase cleaves 4-MU- $\alpha$ -GlcNS to yield 4-MU- $\alpha$ -GlcNH <sub>2</sub> , which is then cleaved by $\alpha$ -glucosaminidase to release the fluorescent product 4-MU, which displays an emission maxima of 445-454 nm. The excitation maxima for 4-MU is pH-dependent: 330, 370, and 385 nm at pH 4.6, 7.4, and 10.4, respectively. 4-MU- $\alpha$ -GlcNS has been used to quantify heparin sulphamidase deficiencies associated with Mucopolisaccharidosis IIIA and other lysosomal disorders.
Targets(IC50)	Others

## Solubility Information

Solubility	H <sub>2</sub> O: Slightly soluble DMSO: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.276 mL	11.3799 mL	22.7599 mL
5 mM	0.4552 mL	2.276 mL	4.552 mL
10 mM	0.2276 mL	1.138 mL	2.276 mL
50 mM	0.0455 mL	0.2276 mL	0.4552 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.

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