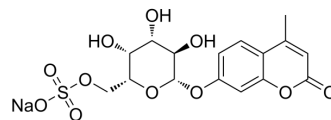


4-Methylumbelliferyl-β-D-galactopyranoside 6-sulfate sodium

Cat. No.:	HY-D1633A
CAS No.:	206443-06-3
Molecular Formula:	C ₁₆ H ₁₇ NaO ₁₁ S
Molecular Weight:	440.35
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 30 mg/mL (68.13 mM)
* "≥" means soluble, but saturation unknown.

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

4-Methylumbelliferyl-β-D-galactopyranoside 6-sulfate sodium is a fluorescent dye. 4-Methylumbelliferyl-β-D-galactopyranoside 6-sulfate sodium can be used in the diagnosis of mucopolysaccharidosis IV A by detecting activity of galactose-6-sulphate sulphatase^{[1][2]}.

REFERENCES

- [1]. van Diggelen OP, et al. A fluorimetric enzyme assay for the diagnosis of Morquio disease type A (MPS IV A). Clin Chim Acta. 1990 Feb 28;187(2):131-9.
- [2]. Olarte-Avellaneda S, et al. Computational analysis of human N-acetylgalactosamine-6-sulfate sulfatase enzyme: an update in genotype-phenotype correlation for Morquio A. Mol Biol Rep. 2014 Nov;41(11):7073-88.

Caution: Product has not been fully validated for medical applications. For research use only.

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