4-Methylumbelliferyl sulfate potassium

Cat. No.: HY-137855

CAS No.: 15220-11-8

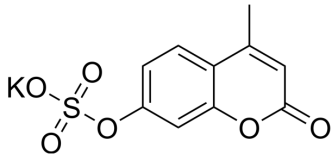
Molecular Formula: $C_{10}H_7KO_6S$

Molecular Weight: 294.32

Target: Biochemical Assay Reagents

Pathway: Others

Storage: 4°C, stored under nitrogen, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 4 mg/mL (13.59 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.3977 mL	16.9883 mL	33.9766 mL
	5 mM	0.6795 mL	3.3977 mL	6.7953 mL
	10 mM	0.3398 mL	1.6988 mL	3.3977 mL

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

BIOLOGICAL ACTIVITY

Description

4-Methylumbelliferyl sulfate (potassium), a fluorescent substrate, is commonly used to detect sulfatase activity in biochemical and biomedical research. It consists of a sulfate group attached to a fluorescent molecule, which can be cleaved by sulfatase enzymes. Upon cleavage, 4-Methylumbelliferyl sulfate releases a highly fluorescent product that can be detected using fluorescence microscopy or spectroscopy. The use of 4-Methylumbelliferyl sulfate as a substrate for sulfatase enzymes allows accurate detection and quantification of these enzymes in a variety of biological samples.

In Vitro

4-Methylumbelliferyl sulfate potassium salt is a biochemical reagent that can be used as a biological material or organic compound for life science related research.
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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