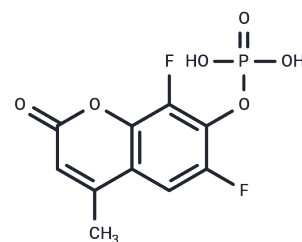


DiFMUP

Chemical Properties

CAS No. :	214491-43-7
Formula:	C ₁₀ H ₇ F ₂ O ₆ P
Molecular Weight:	292.13
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	DiFMUP (6,8-Difluoro-4-methylumbelliferyl phosphate) inhibits protein tyrosine phosphatases (PTPs) and can be used to assay threonine phosphatase activity.
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Solubility Information

Solubility	DMSO: 30 mg/mL (102.69 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	3.4231 mL	17.1157 mL	34.2313 mL
5 mM	0.6846 mL	3.4231 mL	6.8463 mL
10 mM	0.3423 mL	1.7116 mL	3.4231 mL
50 mM	0.0685 mL	0.3423 mL	0.6846 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.

Reference

Gee KR, et al. Fluorogenic substrates based on fluorinated umbelliferones for continuous assays of phosphatases and beta-galactosidases. Anal Biochem. 1999 Aug 15;273(1):41-8.

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