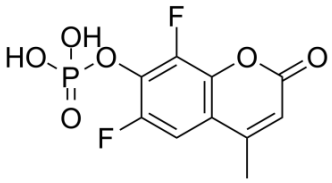
DiFMUP

Cat. No.:	HY-120166
CAS No.:	214491-43-7
Molecular Formula:	$C_{10}H_7F_2O_6P$
Molecular Weight:	292.13
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DiFMUP is a fluorogenic substrate, and has been widely used for the continuous detection of phosphatase activities. DiFMUP is hydrolysis by a phosphatase results in the release of Xuorescent DIFMU, which can be easily followed in continuous mode by a Xuorescence reader[1][2].
In Vitro	DIFMUP (100 μM; 0-4 min) is hydrolyzed by protein tyrosine phosphatase 1B (PTP1B) in a time-dependent manner and the initial rate of the reaction velocity is increased with the enzyme concentration (30-600 ng/mL)[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

[2]. Welte S, et, al. 6,8-Difluoro-4-methylumbiliferyl phosphate: a fluorogenic substrate for protein tyrosine phosphatases. Anal Biochem. 2005 Mar 1;338(1):32-8.

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