GeneCopoeia™
Expressway to Discovery

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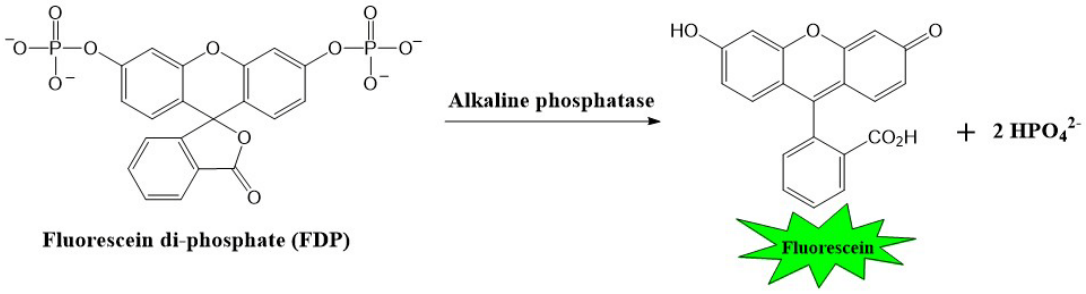
FDP (Fluorescein diphosphate, tetraammonium salt)

Catalog Number	Packaging Size
C275	2 mg

Storage upon receipt: -20°C, protected from light

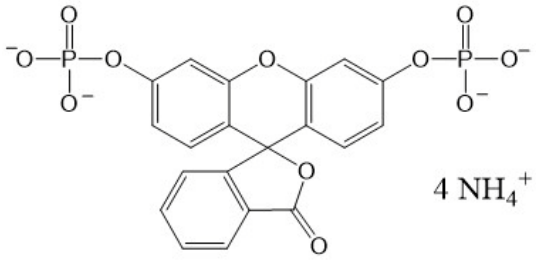
Introduction

FDP is a colorless and nonfluorescent substrate for alkaline phosphatases. Sequential alkaline phosphatase mediated hydrolysis of its two phosphate substituents yields weakly fluorescent fluorescein monophosphate followed by strongly fluorescent fluorescein (excitation/emission ~488/515 nm).



Specifications

Label:	Fluorescein
Ex/Em:	488/515 nm
Detection Method:	Fluorescent
Molecular Formula:	$C_{20}H_{26}N_4O_{11}P_2$
Molecular Weight:	560.39
CAS Number:	217305-49-2
Storage Conditions:	-20°C, protect from light
Shipping Condition:	Room Temperature



Applications

Phosphatase Substrate

References:

1. Evaluation of fluorescent compound interference in 4 fluorescence polarization assays: 2 kinases, 1 protease, and 1 phosphatase.

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2. Fluorogenic substrates for beta-D-galactosidases and phosphatases derived from fluorescein (3,6-dihydroxyfluoran) and its monomethylether.Fluorogenic substrates for beta-D-galactosidases and phosphatases derived from fluorescein (3,6-dihydroxyfluoran) and its monomethylether.
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3. Ionization and tautomerism of oxyxanthene dyes in aqueous butanolIonization and tautomerism of oxyxanthene dyes in aqueous butanol
Mchedlov-Petrossyan NO, Tychina ON, Berezhnaya TA, Alekseeva VI, Savvina LP
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