

Product Information

FDP [Fluorescein diphosphate, tetraammonium salt]

Catalog Number: F1001

Product Size: 5 mg

Parameters

Appearance: Yellow solid soluble in water

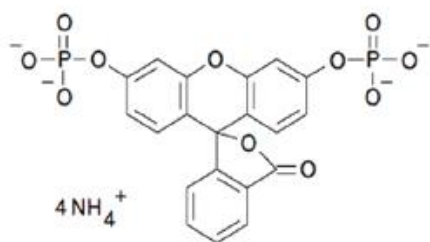
Ex/Em: 490/514 nm (Final product)

CAS No.: 217305-49-2

Molecular Formula: $C_{20}H_{26}N_4O_{11}P_2$

Molecular Weight: 560.39

Molecular Structure:



Storage

Store at -20°C and protect from light. When stored as directed, product is stable for at least 12 months.

Description

FDP (Fluorescein Diphosphate, Tetraammonium Salt) is one of the most sensitive alkaline phosphatase fluorescent substrates. It is widely used for the detection of tyrosine phosphatase (PTPase) activity, and plays a role in high-throughput screening of PTPase inhibitors. In addition, FDP can also be used as a chromogenic substrate to detect phosphatase activity in enzyme-linked immunosorbent assay (ELISA). Under the catalysis of alkaline phosphatase, colorless and non-fluorescent FDP is hydrolyzed to a form of green fluorescein with high intensity fluorescence.

Notes

1. The recommended storage concentration of this product is 10 mM, which is soluble in phosphate-free solutions at pH 7-8.
2. The background fluorescence of the FDP sample is mainly from fluorescein monophosphate. If this product is not used immediately, it is recommended to store it at -20°C and protect it from light after packaging.

