Biotium

Supplier of fluorescent and related biochemical reagents for life science research and drug discovery
Glowing Products for Science™

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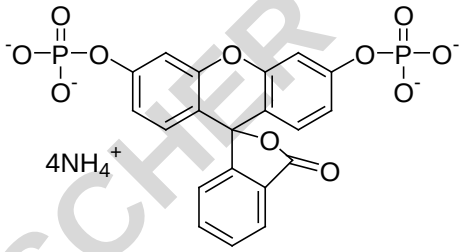
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PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: **FDP** (fluorescein diphosphate, tetraammonium salt)

CATALOG NUMBER: **10030**

MOLECULAR INFORMATION: $C_{20}H_{26}N_4O_{11}P_2$
Mwt: 560.39
[217305-49-2]



PROPERTIES:

Color & Form	Off-white solid
Purity	≥ 95% by HPLC
Solubility	Soluble in buffer (pH 7-8)
Absorption	272nm (FDP)/490nm (fluorescein)
Emission	N/A (FDP)/514nm (fluorescein)
Extinction Coefficient	5300 (FDP)/90,000 (fluorescein)

STORAGE AND HANDLING: Store desiccated at -20°C upon receipt. Protect from light, especially in solution.

APPLICATION: FDP is the most sensitive fluorogenic alkaline phosphatase substrate.[1] It is also an excellent substrate for protein tyrosine phosphatase (PTPase) and thus the substrate of choice in the high throughput screening (HTS) for PTPase inhibitor. FDP itself is colorless, but the end product of the enzymatic reaction is fluorescein, which is highly green fluorescent.

Ref.: 1) *Appl Environ Microbiol* **64**, 1526 (1998); 2) *Biol Res* **27**, 241 (1994); 3) *Anal Biochem* **285**, 58 (2000); 4) *J Biomol Screen* **4**, 327 (1999); 5)*Proc Natl Acad Sci U S A* **93**, 3068 (1996).

TOXICITY: Unknown

FIRST AID: Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.

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