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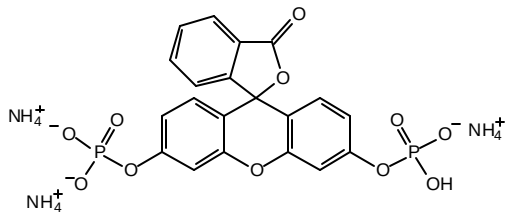
ProductInformation

Fluorescein diphosphate, triammonium salt

Product Number **F 2678**
Storage Temperature –20 °C

Synonyms: FDP; Spiro[isobenzofuran-1(3H), 9'-[9H]xanthen]-3-one, 3', 6' bis(phosphonooxy)-, triammonium salt

Product Description



Formula: $C_{20}H_{23}N_3O_{11}P_2$
Formula weight: 543.4
Melting point: 230-240 °C

Fluorescein diphosphate, triammonium salt (FDP) is a highly sensitive fluorogenic phosphatase substrate, which releases fluorescein upon hydrolysis. In a phosphatase reaction, FDP has a K_M value of 95 ± 16 µM. There is a 50-fold increase in sensitivity using FDP for alkaline phosphatase detection in an ELISA compared to using p-nitrophenyl phosphate.

Preparation Instructions

This product is soluble in water, DMSO, and methanol.

Precautions and Disclaimer

This product is for laboratory research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and it is recommended to store the product at –20 °C.

References

1. Huang, Z., et al., A sensitive competitive ELISA for 2,4-dinitrophenol using 3,6-fluorescein diphosphate as a fluorogenic substrate. Biochem. Pharm., **43**, 1777-1784 (1992).

PMH/MAM 12/02