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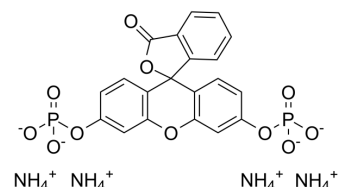
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Fluorescein diphosphate tetraammonium

Cat. No.:	HY-129887
CAS No.:	217305-49-2
Molecular Formula:	C ₂₀ H ₂₆ N ₄ O ₁₁ P ₂
Molecular Weight:	560.39
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	Fluorescein diphosphate tetraammonium is a fluorescent dye, it can be used as a fluorogenic substrate and generates fluorescein as a fluorescent product ^{[1][2][3]} .
In Vitro	Fluorescein diphosphate tetraammonium can be used as a fluorogenic substrate, and obtains fluorescein as a fluorescent product^[1]. Fluorescein diphosphate tetraammonium (50 μM; room temperature) can be used as a substrate in vitro phosphatase assays^[2]. Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs). ELISA with capillary immunosensor (single-step ELISA)^[3]: 1. Put various concentrations of antigen in Tris buffer 1 containing 1% BSA into capillary immunosensor. 2. Immobilize capture antibody and enzyme-linked antibody via capillary action, incubates for a preset time, and subsequently washing with 1 mL of 50 mM Tris buffer (pH 7.4) containing 0.14 M NaCl and 0.05% Tween 20 by using a syringe. 3. Fluorescence is detected by introducing an excess volume (ca. 100 μL) of 20 μM FDP in 50 mM Tris buffer (pH 9) with an incubation time of 60 min. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Murakami Y, et al. On-chip capillary electrophoresis for alkaline phosphatase testing. Biosens Bioelectron. 2001 Dec;16(9-12):1009-14.
- [2]. Gilmartin AG, et al. Allosteric Wip1 phosphatase inhibition through flap-subdomain interaction. Nat Chem Biol. 2014 Mar;10(3):181-7.
- [3]. Tsutsumi E, et al. Single-step sandwich immunoreaction in a square glass capillary immobilizing capture and enzyme-linked antibodies for simplified enzyme-linked immunosorbent assay. Anal Sci. 2012;28(1):51-6.

Caution: Product has not been fully validated for medical applications. For research use only.

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