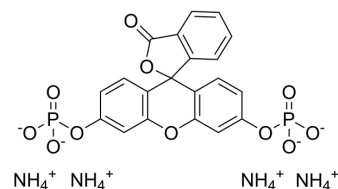


Fluorescein diphosphate tetraammonium

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:	Please store the product under the recommended conditions in the Certificate of Analysis.



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	<p>Fluorescein diphosphate tetraammonium can be used as a fluorogenic substrate, and obtains luorescein as a fluorescent product^[1].</p> <p>Fluorescein diphosphate tetraammonium (50 μM; room temperature) can be used as a substrate in vitro phosphatase assays^[2].</p> <p>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</p> <p>ELISA with capillary immunosensor (single-step ELISA)^[3]:</p> <ol style="list-style-type: none"> Put various concentrations of antigen in Tris buffer 1 containing 1% BSA into capillary immunosensor. 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. 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. <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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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