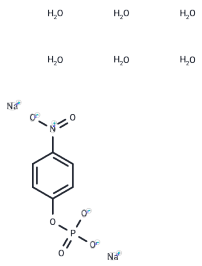
Data Sheet (Cat.No.T67689)

TargetMol

Sodium 4-nitrophenyl phosphate hexahydrate

Chemical Properties



CAS No. : 333338-18-4

Formula: C6H16NNa2O12P

Molecular Weight: 371.14

Storage: Store at low temperature,Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Sodium 4-nitrophenyl phosphate hexahydrate (4-Nitrophenyl phosphate disodium hexahydrate) is hydrolyzed by alcohol phosphatase (ALP) and can be used to develop a dual-mode immunoassay for the detection of ochratoxin A (OTA).
Targets(IC50)	Others
In vitro	4-Nitrophenyl phosphate (PNPP) disodium hexahydrate is a commonly used substrate for alkaline phosphatases (ALPs). 4-Nitrophenyl phosphate disodium hexahydrate is hydrolyzed by ALP to PNP (p-nitrophenol), which quenches the fluorescence of novel gold nanoclusters (AuNCs) by the inner filter effect (IFE).[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6944 mL	13.472 mL	26.944 mL
5 mM	0.5389 mL	2.6944 mL	5.3888 mL
10 mM	0.2694 mL	1.3472 mL	2.6944 mL
50 mM	0.0539 mL	0.2694 mL	0.5389 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Qi S, et al. Development of a facile and sensitive method for detecting alkaline phosphatase activity in serum with fluorescent gold nanoclusters based on the inner filter effect. Analyst. 2020;145(11):3871-3877.

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