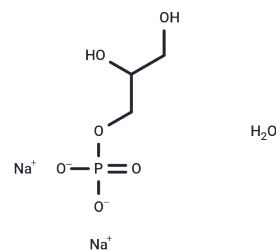


## Glycerophosphate disodium hydrate

## Chemical Properties

CAS No. :	55073-41-1
Formula:	C <sub>3</sub> H <sub>7</sub> Na <sub>2</sub> O <sub>6</sub> P.xH <sub>2</sub> O
Molecular Weight:	234.05
Storage:	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	Glycerophosphate disodium hydrate is a biochemical reagent used in chromatin immunoprecipitation assays. Glycerophosphate disodium hydrate has been employed in a novel microplate-based CHIP method to precipitate DNA-protein complexes from rat mesangial cells in a 96-well format, offering improved throughput and reproducibility for epigenetic research.
Targets(IC50)	Others
In vitro	Glycerophosphate disodium hydrate has been evaluated as a viable phosphorus source for <i>Pichia pastoris</i> cultivation [1]. When combined with chitosan, Glycerophosphate disodium hydrate can be used to prepare biodegradable hydrogels [2]. Additionally, Glycerophosphate disodium hydrate is applicable in a novel microplate-based chromatin immunoprecipitation method, enabling efficient immunoprecipitation of DNA derived from rat glomerular mesangial cells in 96-well plates [3].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2726 mL	21.363 mL	42.7259 mL
5 mM	0.8545 mL	4.2726 mL	8.5452 mL
10 mM	0.4273 mL	2.1363 mL	4.2726 mL
50 mM	0.0855 mL	0.4273 mL	0.8545 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

Zhang W, et al. Glycerophosphate as a phosphorus source in a defined medium for *Pichia pastoris* fermentation. *Appl Microbiol Biotechnol*. 2006 Aug;72(1):139-144.

Paulson DP, et al. A novel controlled local drug delivery system for inner ear disease. *Laryngoscope*. 2008 Apr;118(4):706-11.

Flanagin S, et al. Microplate-based chromatin immunoprecipitation method, Matrix ChIP: a platform to study signaling of complex genomic events. *Nucleic Acids Res*. 2008 Feb;36(3):e17.

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