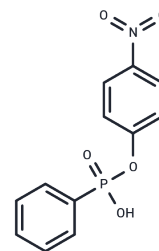


## 4-Nitrophenyl Phenylphosphonate

## Chemical Properties

CAS No. :	57072-35-2
Formula:	C <sub>12</sub> H <sub>10</sub> NO <sub>5</sub> P
Molecular Weight:	279.19
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	4-Nitrophenyl phenylphosphonate is a substrate for 5'-nucleotide phosphodiesterases. It is a more preferable substrate to 5'-nucleotide phosphodiesterases than naturally occurring nucleotides or bis(4-nitrophenyl) phosphate because of its stability, ease of synthesis, and higher rate of hydrolysis under saturating conditions.
Targets(IC50)	Others,PDE

## Solubility Information

Solubility	DMSO: 14 mg/mL (50.15 mM),Sonication is recommended. DMF: 30 mg/mL (107.45 mM),Sonication is recommended. DMF:PBS(pH 7.2)(1:1): 0.5 mg/mL (1.79 mM),Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5818 mL	17.909 mL	35.8179 mL
5 mM	0.7164 mL	3.5818 mL	7.1636 mL
10 mM	0.3582 mL	1.7909 mL	3.5818 mL
50 mM	0.0716 mL	0.3582 mL	0.7164 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.

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