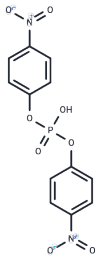
# Data Sheet (Cat.No.T65012)

TargetMol

## Bis(4-nitrophenyl) phosphate

### Chemical Properties



CAS No. : 645-15-8

Formula: C12H9N2O8P

Molecular Weight: 340.18

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 | Bis(4-nitrophenyl) phosphate (BNPP) inhibits UDP-galactose and can be used to study glycosyltransferase membrane topology. |
| Targets(IC50) | Others |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 100 mg/mL (293.96 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.9396 mL | 14.6981 mL | 29.3962 mL |
| 5 mM | 0.5879 mL | 2.9396 mL | 5.8792 mL |
| 10 mM | 0.294 mL | 1.4698 mL | 2.9396 mL |
| 50 mM | 0.0588 mL | 0.294 mL | 0.5879 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

Brandt E, Heymann E. Enzymatic hydrolysis of bis-(4-nitrophenyl)phosphate and bis-(4-cyanophenyl)phosphate by rat tissues. Biochem Pharmacol. 1978 Mar 1;27(5):773-7.

Zhou L, Tian M, Zhang B, et al.Lysosome targeting fluorescent probe for NAAA imaging and its applications in the drug development for anti-inflammatory.International Journal of Biological Macromolecules.2024: 130307.

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