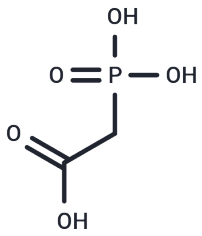
Data Sheet (Cat.No.T4729)

TargetMol

Phosphonoacetic acid

Chemical Properties



CAS No. : 4408-78-0

Formula: C2H5O5P

Molecular Weight: 140.03

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	Phosphonoacetate, also known as fosfonet or phosphonacetic acid, belongs to the class of organic compounds known as organic phosphonic acids.Within the cell, phosphonoacetate is primarily located in the cytoplasm. Phosphonoacetate can be biosynthesized from phosphonic acid and acetic acid.
Targets(IC50)	Endogenous Metabolite,HSV,DNA/RNA Synthesis,Virus Protease

Solubility Information

Solubility	DMSO: 250 mg/mL (1785.33 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (71.41 mM),Solution. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.1413 mL	35.7066 mL	71.4133 mL
5 mM	1.4283 mL	7.1413 mL	14.2827 mL
10 mM	0.7141 mL	3.5707 mL	7.1413 mL
50 mM	0.1428 mL	0.7141 mL	1.4283 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

Abendroth A , Lin I , Slobedman B , et al. Varicella-Zoster Virus Retains Major Histocompatibility Complex Class I Proteins in the Golgi Compartment of Infected Cells[J]. Journal of Virology, 2001, 75(10):4878-4888.

Sairenji T , Hinuma Y , Sekizawa T , et al. Appearance of early and late components of Epstein-Barr virus-associated membrane antigen in Daudi cells superinfected with P3HR-1 virus.[J]. Journal of General Virology, 1978, 38(1):111.

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