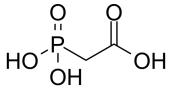
Phosphonoacetic acid

Cat. No.: HY-128744 CAS No.: 4408-78-0 Molecular Formula: $C_2H_5O_5P$ Molecular Weight: 140.03

Target: Endogenous Metabolite; Orthopoxvirus Pathway: Metabolic Enzyme/Protease; Anti-infection Storage: 4°C, sealed storage, away from moisture

* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

H₂O: 260 mg/mL (1856.74 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS

Solubility: 100 mg/mL (714.13 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description	$Phosphonoacetic\ acid\ is\ an\ endogenous\ metabolite.\ Phosphonoacetic\ acid\ also\ has\ anti-orthopoxvirus\ activity^{[1]}.$
IC ₅₀ & Target	Human Endogenous Metabolite

REFERENCES

[1]. Donald F Smee, et al. A review of compounds exhibiting anti-orthopoxvirus activity in animal models. Antiviral Res. 2003 Jan;57(1-2):41-52.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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