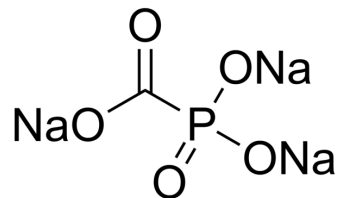


Foscarnet sodium

Cat. No.:	HY-B1318
CAS No.:	63585-09-1
Molecular Formula:	CNa ₃ O ₅ P
Molecular Weight:	191.95
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 60 mg/mL (312.58 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.2097 mL	26.0485 mL	52.0969 mL
	5 mM	1.0419 mL	5.2097 mL	10.4194 mL
	10 mM	0.5210 mL	2.6048 mL	5.2097 mL

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

BIOLOGICAL ACTIVITY

Description

Foscarnet sodium (Trisodium phosphonoformate) is a viral DNA polymerase activity inhibitor, leading to reversible suppression of viral replication. Foscarnet sodium is an antiherpesvirus agent used in cytomegalovirus retinitis^{[1][2][3]}.

In Vitro

Foscarnet sodium (Trisodium phosphonoformate) inhibits Influenza A Victoria (IC₅₀=29 μM), Influenza B HK (IC₅₀=61 μM), and Avian myeloblastosis virus (IC₅₀=5-8 μM), HSV-1, several strains (IC₅₀=0.4-3.5 μM)^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Med Virol. 2022 Nov 27.
- Viruses. 2022 Sep 15;14(9):2049.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Manischewitz JF, et al. Synergistic effect of ganciclovir and foscarnet on cytomegalovirus replication in vitro. *Antimicrob Agents Chemother.* 1990 Feb;34(2):373-5.
- [2]. Oberg B, et al. Antiviral effects of phosphonoformate (PFA, foscarnet sodium). *Pharmacol Ther.* 1982;19(3):387-415.
- [3]. Hakki M, et al. Moving Past Ganciclovir and Foscarnet: Advances in CMV Therapy. *Curr Hematol Malig Rep.* 2020 Jan 24.
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Caution: Product has not been fully validated for medical applications. For research use only.

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