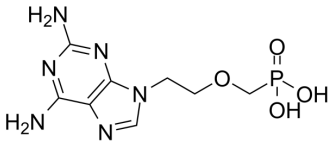
PMEDAP

Cat. No.:	HY-106382
CAS No.:	113852-41-8
Molecular Formula:	$C_8H_{13}N_6O_4P$
Molecular Weight:	288.2
Target:	HIV; CMV
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

0.1 M NaOH : 14.29 mg/mL (49.58 mM; ultrasonic and adjust pH to 12 with NaOH)

	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	**1 mM**	3.4698 mL	17.3491 mL	34.6981 mL
	5 mM	0.6940 mL	3.4698 mL	6.9396 mL
	10 mM	0.3470 mL	1.7349 mL	3.4698 mL

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

BIOLOGICAL ACTIVITY

Description

PMEDAP is a potent inhibitor of human immunodeficiency virus (HIV) replication. PMEDAP has anti-murine cytomegalovirus (MCMV) activity. PMEDAP is a very potent inhibitor of Moloney murine sarcoma virus (MSV)-induced tumor formation and associated mortality[1][2].

In Vivo

PMEDAP (0.25-5 mg/kg; IP; daily; starting on the day of MSV-infected and continuing for an additional four days) causes a dose-dependent suppression of tumor formation and mortality in newborn mice inoculated with MSV[1].

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

Animal Model:	Three-week-old male NMRI mice[1]
Dosage:	0.25 mg/kg, 1 mg/kg, 5 mg/kg
Administration:	IP; daily; starting on the day of infection and continuing for an additional four days
Result:	Effected a significant delay in tumor appearance and an enhancement of the survival rate of tumor-bearing mice.

REFERENCES

[1]. Neyts J, et al. Activity of the anti-HIV agent 9-(2-phosphonyl-methoxyethyl)-2,6-diaminopurine against cytomegalovirus in vitro and in vivo [published correction appears in Eur J Clin Microbiol Infect Dis 1993 Jul;12(7):following 477]. Eur J Clin Microbiol Infect Dis. 1993;12(6):437-446.

[2]. Naesens L, et al. 9-(2-Phosphonylmethoxyethyl)-2,6-diaminopurine (PMEDAP): a novel agent with anti-human immunodeficiency virus activity in vitro and potent anti-Moloney murine sarcoma virus activity in vivo. Eur J Clin Microbiol Infect Dis. 1989;8(12):1043-1047.

Caution: Product has not been fully validated for medical applications. For research use only.

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