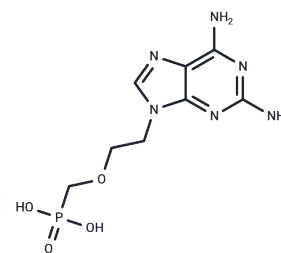


PMEDAP

Chemical Properties

CAS No. :	113852-41-8
Formula:	C ₈ H ₁₃ N ₆ O ₄ P
Molecular Weight:	288.2
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	PMEDAP is a potent inhibitor of Moloney murine sarcoma virus (MSV)-induced tumor formation and mortality, as well as a human immunodeficiency virus (HIV) replication inhibitor with anti-murine cytomegalovirus (MCMV) activity.
Targets(IC50)	HIV Protease,Virus Protease
In vivo	In Three-week-old male NMRI mice inoculated with MSV, PMEDAP (0.25-5 mg/kg; IP; daily;) effected a significant delay in tumor appearance and an enhancement of the survival rate of tumor-bearing mice. PMEDAP also suppressed tumor formation and mortality in a dose-dependent manner[2].

Solubility Information

Solubility	0.1 M NaOH: 14.29 mg/mL (49.58 mM),when pH is adjusted to 12 with NaOH. Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4698 mL	17.3491 mL	34.6981 mL
5 mM	0.694 mL	3.4698 mL	6.9396 mL
10 mM	0.347 mL	1.7349 mL	3.4698 mL
50 mM	0.0694 mL	0.347 mL	0.694 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

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.

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.

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