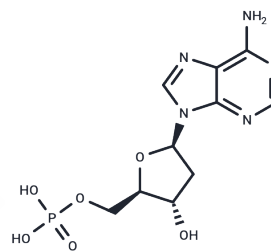


2'-Deoxyadenosine-5'-monophosphate

Chemical Properties

CAS No. :	653-63-4
Formula:	C ₁₀ H ₁₄ N ₅ O ₆ P
Molecular Weight:	331.22
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	2'-Deoxyadenosine-5'-monophosphate (D-AMP) is a nucleoside comprised of adenine attached to a ribose (ribofuranose) moiety via a -N9-glycosidic bond. Deoxyadenosine monophosphate is a derivative of the common nucleic acid ATP, or adenosine triphosphate, in which the -OH (hydroxyl) group on the 2' carbon on the nucleotide's pentose has been removed (hence the deoxy- part of the name). Additionally, the monophosphate of the name indicates that two of the phosphoryl groups of GTP have been removed, most likely by hydrolysis. Deoxyadenosine monophosphate is abbreviated dAMP.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 45 mg/mL (135.86 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.04 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0191 mL	15.0957 mL	30.1914 mL
5 mM	0.6038 mL	3.0191 mL	6.0383 mL
10 mM	0.3019 mL	1.5096 mL	3.0191 mL
50 mM	0.0604 mL	0.3019 mL	0.6038 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

Hohenester E , Hutchinson W L , Pepys M B , et al. Crystal structure of a decameric complex of human serum amyloid P component with bound dAMP[J]. *Journal of Molecular Biology*, 1997, 269(4):0-578.

Avkin S , Adar S , Blander G , et al. Quantitative measurement of translesion replication in human cells: Evidence for bypass of abasic sites by a replicative DNA polymerase[J]. *Proceedings of the National Academy of Sciences*, 2002, 99(6):3764-3769.

Duarte V , Muller J G , Burrows C J . Insertion of dGMP and dAMP during in vitro DNA synthesis opposite an oxidized form of 7,8-dihydro-8-oxoguanine.[J]. *Nucleic Acids Research*, 1999, 27(2):496-502.

Xiao-Rong C , Gui-Ming L I , Jiang-Rong W , et al. Portal hemodynamics in patients with different syndromes of cirrhosis[J]. *Journal of Chinese Integrative Medicine*, 2004, 2(3):178.

Zhong H, Zang KT. Therapeutic approaches for chronic gastralgia based on differentiation of symptoms and signs. *Di Yi Jun Yi Da Xue Xue Bao*. 2002 Jul;22(7):639-40.

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