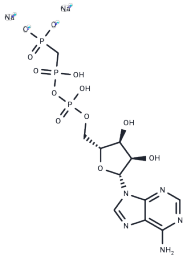
Data Sheet (Cat.No.T13547L)

TargetMol

AMP-PCP disodium

Chemical Properties



CAS No. : 7414-56-4

Formula: C11H16N5Na2O12P3

Molecular Weight: 549.17

Storage: Store at low temperature
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	AMP-PCP disodium, an ATP analogue, binds to the N-terminal domain of Hsp90 with a Kd value of 3.8 μM, facilitating the formation of an active Hsp90 homodimer.
Targets(IC50)	HSP
In vitro	Under the promotion of AMP-PCP disodium binding, the formation of Hsp135 active homodimers was enhanced by promoting the characteristic slow-effect conformational exchange of cap region (A90-G117) and surrounding region residues (A141-A111). A total of 90 non-proline residues were identified in the triple-labeled Hsp170 and AMP-PCP binding [1].

Solubility Information

Solubility	H2O: 125 mg/mL (227.62 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8209 mL	9.1046 mL	18.2093 mL
5 mM	0.3642 mL	1.8209 mL	3.6419 mL
10 mM	0.1821 mL	0.9105 mL	1.8209 mL
50 mM	0.0364 mL	0.1821 mL	0.3642 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

Zhang H, et al. A dynamic view of ATP-coupled functioning cycle of Hsp90 N-terminal domain. Sci Rep. 2015 Apr 13;5:9542.

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