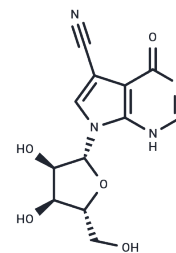


## Jaspamycin

## Chemical Properties

CAS No. :	22242-96-2
Formula:	C <sub>12</sub> H <sub>12</sub> N <sub>4</sub> O <sub>5</sub>
Molecular Weight:	292.25
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	Jaspamycin is a potent PKA activator that binds to the PKAR site of Trypanosoma brucei, with EC <sub>50</sub> and K <sub>d</sub> values of 6.5 nM and 8 nM, respectively. It does not bind to purified human PKAR1 $\alpha$ and shows favorable antiparasitic activity.
Targets(IC50)	Parasite,JAK,PKA

## Solubility Information

Solubility	DMSO: 33.34 mg/mL (114.08 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 (6.84 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	3.4217 mL	17.1086 mL	34.2173 mL
5 mM	0.6843 mL	3.4217 mL	6.8435 mL
10 mM	0.3422 mL	1.7109 mL	3.4217 mL
50 mM	0.0684 mL	0.3422 mL	0.6843 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

Sabine Bachmaier, et al. Nucleoside analogue activators of cyclic AMP-independent protein kinase A of Trypanosoma. Nat Commun. 2019 Mar 29;10(1):1421.

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