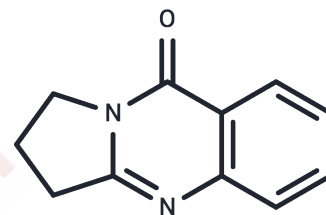


## Deoxyvasicinone

## Chemical Properties

CAS No. :	530-53-0
Formula:	C <sub>11</sub> H <sub>10</sub> N <sub>2</sub> O
Molecular Weight:	186.21
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Deoxyvasicinone is a natural alkaloid that acts as an inhibitor of translation, SUMOylation modification, and 15-human lipoxygenase in eukaryotic organisms.
Targets(IC50)	E1/E2/E3 Enzyme,Lipoxygenase
In vitro	<b>Methods:</b> Deoxyvasicinone (0-100 $\mu$ M) was used to treat human liver cancer cells (HepG2), human breast cancer cells (MCF7) and human lung cancer cells (HCC827), and CCK8 was used to determine cytotoxicity. <b>Results:</b> The IC50 values of deoxyvasicinone against HepG2, MCF7 and HCC827 were 5.7, 7.21 and 0.75 $\mu$ M, respectively. [2]

## Solubility Information

Solubility	DMSO: 40 mg/mL (214.81 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: 1.5 mg/mL (8.06 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

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	1mg	5mg	10mg
1 mM	5.3703 mL	26.8514 mL	53.7028 mL
5 mM	1.0741 mL	5.3703 mL	10.7406 mL
10 mM	0.537 mL	2.6851 mL	5.3703 mL
50 mM	0.1074 mL	0.537 mL	1.0741 mL

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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

Discovery of deoxyvasicinone derivatives as inhibitors of NEDD8-activating enzyme. *Methods*. 2015 Jan;71:71-6.  
Zhou W, et al. Directional screening and identification of potential cytotoxic components from *Achnatherum inebrians* by a combination of surface plasmon resonance and chromatography. *Chin Herb Med*. 2022 Nov 1;15 (2):329-336.

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