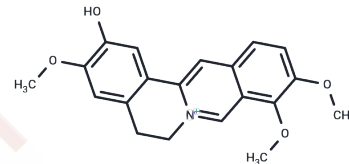


## Columbamine

## Chemical Properties

CAS No. :	3621-36-1
Formula:	C <sub>20</sub> H <sub>20</sub> NO <sub>4</sub>
Molecular Weight:	338.38
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	Columbamine (Columbamin) shows strong activity with IC <sub>50</sub> 48.1 μM. Columbamine exerts anti-proliferative and anti-vasculogenic effects on metastatic human osteosarcoma U2OS cells with low toxicity.
Targets(IC <sub>50</sub> )	Apoptosis,Others,Parasite,Cytochromes P450

## Solubility Information

Solubility	DMSO: 3.39 mg/mL (10.02 mM),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	2.9553 mL	14.7763 mL	29.5526 mL
5 mM	0.5911 mL	2.9553 mL	5.9105 mL
10 mM	0.2955 mL	1.4776 mL	2.9553 mL
50 mM	0.0591 mL	0.2955 mL	0.5911 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

- Bao M , Cao Z , Yu D , et al. Columbamine suppresses the proliferation and neovascularization of metastatic osteosarcoma U2OS cells with low cytotoxicity.[J]. Toxicology Letters, 2012, 215(3):174-180.
- Kim Y J, Kim T I, Lee A, et al.Sinomenium acutum Modulates Platelet Aggregation and Thrombus Formation by Regulating the Glycoprotein VI-Mediated Signalosome in Mice.Pharmaceuticals.2023, 17(1): 6.

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