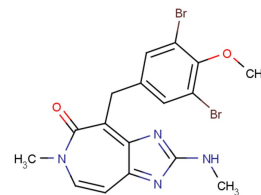


## Ceratamine A

## Chemical Properties

CAS No.:	634151-15-8
Formula:	C <sub>17</sub> H <sub>16</sub> Br <sub>2</sub> N <sub>4</sub> O <sub>2</sub>
Molecular Weight:	468.14
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Ceratamine A is an antimitotic heterocyclic alkaloid isolated from the marine sponge <i>Pseudoceratina</i> sp., acts as a microtubule-stabilizing agent with cytotoxicity against human cancer cell lines.
Targets(IC <sub>50</sub> )	Others: None

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.136 mL	10.681 mL	21.361 mL
5 mM	0.427 mL	2.136 mL	4.272 mL
10 mM	0.214 mL	1.068 mL	2.136 mL
50 mM	0.043 mL	0.214 mL	0.427 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Manzo E, et al. Ceratamines A and B, antimitotic heterocyclic alkaloids isolated from the marine sponge *Pseudoceratina* sp. collected in Papua New Guinea. *Org Lett*. 2003 Nov 27;5(24):4591-4.
2. Nodwell M, et al. Synthetic approaches to the microtubule-stabilizing sponge alkaloid ceratamine A and desbromo analogues. *J Org Chem*. 2009 Feb 6;74(3):995-1006.
3. Pan X, et al. Synthesis and cytotoxicity of novel imidazo[4,5-d]azepine compounds derived from marine natural product ceratamine A. *Bioorg Med Chem Lett*. 2018 Mar 1;28(5):866-868.

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