
Product Data Sheet

Product Name: Ceratamine A

Cat. No.: GC35654

Chemical Properties

Cas. No. 634151-15-8

SMILES O=C(N(C)C=C1)C(CC2=CC(Br)=C(OC)C(Br)=C2)=C3C1=NC(NC)=N3Formula $C_{17}H_{16}Br_2N_4O_2$ M.Wt 468.14

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Ceratamine A is an antimitotic heterocyclic alkaloid isolated from the marine sponge *Pseudoceratina* sp., acts as a microtubule-stabilizing agent. Ceratamine A exhibits cytotoxicity against human cancer cell lines[1][2][3].

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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