

Crassicauline A

Chemical Properties

CAS No. : 79592-91-9

Formula: C₃₅H₄₉N₁₀O₁₀

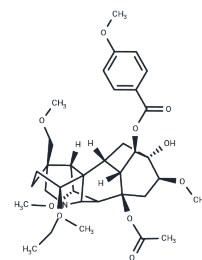
Molecular Weight: 643.76

Keep away from direct sunlight, Keep away from moisture

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	1. Crassicauline A (Crassicauline I) and Yunaconitine possesses feeding deterrent activity against <i>T. castaneum</i> adults, with EC(5) values of 1134.5 and 653.4 ppm, respectively.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 47.5 mg/mL (73.79 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4.75 mg/mL (7.38 mM), Solution. 10% DMSO+90% (20% SBE- β -CD in Saline): < 10 mg/mL (15.53 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Saline: < 10 mg/mL (15.53 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn oil: 10 mg/mL (15.53 mM), Solution. <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	1.5534 mL	7.7669 mL	15.5337 mL
5 mM	0.3107 mL	1.5534 mL	3.1067 mL
10 mM	0.1553 mL	0.7767 mL	1.5534 mL
50 mM	0.0311 mL	0.1553 mL	0.3107 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

Chung K W, Chen P L, Ng S W, et al. Measurement of yunaconitine and crassicauline A in small-volume blood serum samples by LC-MS/MS: Tracing of aconite poisoning in clinical diagnosis[J]. *Talanta*, 2012, 97(97):491-498.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481