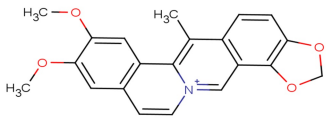
Data Sheet (Cat.No.TN1139)

TargetMol
A DRUG SCREENING EXPERT

Dehydrocavidine

Chemical Properties



CAS No.:	83218-34-2
Formula:	C21H18NO4
Molecular Weight:	348.37
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Dehydrocavidine has antitumor activity, it inhibits MCF-7 cell proliferation by inducing apoptosis mediated by regulating Bax/Bcl-2, activating caspases as well as cleaving PARP.
Targets(IC_{50})	Bcl-2: None Caspase: None IL Receptor: None
In vitro	The complexation behavior of palmatine (P) and Dehydrocorydaline (DHC) alkaloid guest molecules by cucurbit[7]uril (CB7) host have been investigated by means of fluorescence spectra in aqueous phosphate buffer solution (pH 7.2). It is found that each alkaloid exhibits dramatic fluorescence enhancement upon complexation with CB7, and the intensity of the emittance is strong enough to be readily distinguished by the naked eye. Although the two guests possess similar structure, the complex stability constant of P with CB7 is 5.4 times larger than that of DHC.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.871 mL	14.353 mL	28.705 mL
5 mM	0.574 mL	2.871 mL	5.741 mL
10 mM	0.287 mL	1.435 mL	2.871 mL
50 mM	0.057 mL	0.287 mL	0.574 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 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Selective binding and highly sensitive fluorescent sensor of palmatine and dehydrocorydaline alkaloids by cucurbit[7]uril.Org Biomol Chem. 2009 Jul 7;7(13):2699-703.

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