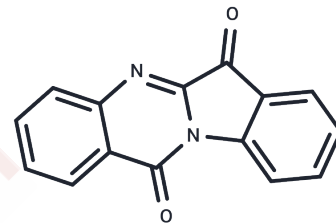


Tryptanthrin

Chemical Properties

CAS No. :	13220-57-0
Formula:	C ₁₅ H ₈ N ₂ O ₂
Molecular Weight:	248.24
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	Tryptanthrin is a natural DNA gyrase inhibitor.
Targets(IC50)	NF-κB, NO Synthase, COX, DNA gyrase, Interleukin, Leukotriene Receptor, TNF
In vitro	Tryptanthrin blocks signaling through VEGFR2 at the level of ERK1/2 signaling in vitro[1]
In vivo	Tryptanthrin suppresses angiogenesis in vivo[1]

Solubility Information

Solubility	DMSO: 5 mg/mL (20.14 mM), Sonication is recommended. Ethanol: < 1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	PBS: < 1 mg/mL (insoluble) <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	4.0284 mL	20.1418 mL	40.2836 mL
5 mM	0.8057 mL	4.0284 mL	8.0567 mL
10 mM	0.4028 mL	2.0142 mL	4.0284 mL
50 mM	0.0806 mL	0.4028 mL	0.8057 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

Liao X , Zhou X , Mak N K , et al. Tryptanthrin Inhibits Angiogenesis by Targeting the VEGFR2-Mediated ERK1/2 Signalling Pathway[J]. PLOS ONE, 2013, 8.

Danz H , Stoyanova S , Wippich P , et al. Identification and Isolation of the Cyclooxygenase-2 Inhibitory Principle in *Isatis tinctoria*[J]. Planta Medica, 2001, 67(5):411-416.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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