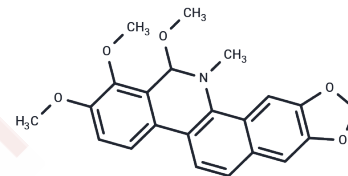


## Angoline

## Chemical Properties

CAS No. :	21080-31-9
Formula:	C <sub>22</sub> H <sub>21</sub> NO <sub>5</sub>
Molecular Weight:	379.41
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Angoline (6-Methoxyldihydrochelerythrine) hydrochloride is a potent and selective IL6/STAT3 signaling pathway inhibitor (IC <sub>50</sub> : 11.56 μM). It inhibits STAT3 phosphorylation and its target gene expression, and inhibits cancer cell proliferation.
Targets(IC <sub>50</sub> )	STAT, IL Receptor, Interleukin
In vitro	Angoline as a potent and selective inhibitor of the STAT3 signaling pathway (IC <sub>50</sub> =11.56 μM). Angoline inhibited STAT3 phosphorylation and its target gene expression and consequently induced growth inhibition of human cancer cells with constitutively activated STAT3 (IC <sub>50</sub> =3.14-4.72 μM). This work provided a novel lead for the development of anti-cancer agents targeting the STAT3 signaling pathway.

## Solubility Information

Solubility	DMSO: 9.06 mg/mL (23.88 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.27 mM), Sonication is recommended. <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

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	1mg	5mg	10mg
1 mM	2.6357 mL	13.1784 mL	26.3567 mL
5 mM	0.5271 mL	2.6357 mL	5.2713 mL
10 mM	0.2636 mL	1.3178 mL	2.6357 mL
50 mM	0.0527 mL	0.2636 mL	0.5271 mL

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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

Jiawei Liu, et al. Angoline: a selective IL-6/STAT3 signaling pathway inhibitor isolated from *Zanthoxylum nitidum*. *Phytomedicine*. Jul-Aug 2014;21(8-9):1088-91.

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