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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Angoline

Cat. No.: HY-N7674

CAS No.: 21080-31-9

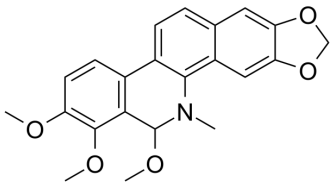
Molecular Formula: $C_{22}H_{21}NO_5$

Molecular Weight: 379.41

Target: STAT

Pathway: JAK/STAT Signaling; Stem Cell/Wnt

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 20.83 mg/mL (54.90 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (6.59 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (6.59 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Angoline is a potent and selective IL6/STAT3 signaling pathway inhibitor with an IC_{50} of 11.56 μM. Angoline inhibits STAT3 phosphorylation and its target gene expression, and inhibits cancer cell proliferation[1].

IC_{50} & Target

IC50: 11.56 μM (IL6/STAT3 signaling pathway), 3.32 μM (MDA-MB-231), 4.72 μM (H4), 3.14 μM (HepG2)[1]

In Vitro

Angoline (0-100 μM; 1 h) inhibits STAT3, STAT1 and NF-κB signaling pathways with IC_{50} values of 11.56, ⊠100 and ⊠100 μM, respectively[1].

Angoline (0-100 μM; 2 h) affects phosphorylation of STAT3[1].

Angoline (0-100 μM; 72 h) inhibits MDA-MB-231, H4 and HepG2 cells proliferation[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	HepG2/STAT3 cell line
Concentration:	0, 1, 10, 30 and 100 μM
Incubation Time:	2 hours
Result:	Inhibited IL-6-induced phosphorylation of STAT3 in HepG2/STAT3 cells.

Cell Proliferation Assay[1]

Cell Line:	MDA-MB-231, H4 and HepG2 cell lines
Concentration:	0-100 μM
Incubation Time:	72 hours
Result:	Inhibited proliferation of MDA-MB-231, H4 and HepG2 cells with IC_{50} values of 3.32, 4.72 and 3.14 μM, respectively.

REFERENCES

[1]. 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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