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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Angoline hydrochloride

Cat. No.: HY-N7674A

CAS No.: 1071676-04-4

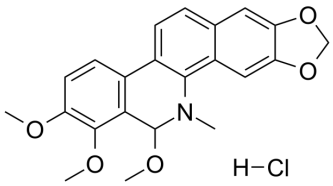
Molecular Formula: $C_{22}H_{22}ClNO_5$

Molecular Weight: 415.87

Target: STAT

Pathway: JAK/STAT Signaling; Stem Cell/Wnt

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Angoline hydrochloride is a potent and selective IL6/STAT3 signaling pathway inhibitor with an IC_{50} of 11.56 μM. Angoline hydrochloride 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 hydrochloride (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 hydrochloride (0-100 μM; 2 h) affects phosphorylation of STAT3[1]. Angoline hydrochloride (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 lines
Concentration:	0, 1, 10, 30 and 100 μM
Incubation Time:	2 hours
Result:	Inhibited IL-6-induced phosphorylation of STAT3 in HepG2/STAT3 cells.

Western Blot Analysis[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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