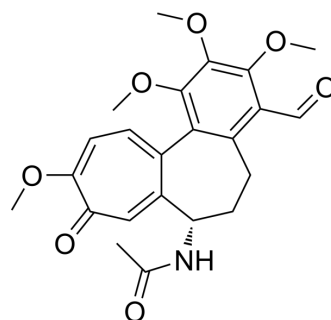


4-Formylcolchicine

Cat. No.:	HY-147348
CAS No.:	2730-82-7
Molecular Formula:	C ₂₃ H ₂₅ NO ₇
Molecular Weight:	427.45
Target:	Others
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 160 mg/mL (374.31 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.3395 mL	11.6973 mL	23.3945 mL
	5 mM		0.4679 mL	2.3395 mL	4.6789 mL
	10 mM		0.2339 mL	1.1697 mL	2.3395 mL

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

BIOLOGICAL ACTIVITY

Description

4-Formylcolchicine is a potent anticancer agent. 4-Formylcolchicine shows cytotoxicity activity with IC₅₀ values of 1.007, 0.128, 0.054 μM for A549, HT-29, HCT116 cells, respectively^[1].

In Vitro

4-Formylcolchicine (compound 7) (0-5 μM; 24 h) shows antiproliferative activity with IC₅₀s of 1.007, 0.128, 0.054 μM for A549, HT-29, HCT116 cells, respectively^[1].

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

Cell Viability Assay^[1]

Cell Line:	A549, HT-29, HCT116 cells
Concentration:	0-5 μM
Incubation Time:	24 h
Result:	Inhibited cell growth with IC ₅₀ s of 1.007, 0.128, 0.054 μM for A549, HT-29, HCT116 cells, respectively.

REFERENCES

[1]. Yasobu N, et al. Design, Synthesis, and Antitumor Activity of 4-Halocolchicines and Their Pro-drugs Activated by Cathepsin B. ACS Med Chem Lett. 2011 Mar 4;2(5):348-52.

Caution: Product has not been fully validated for medical applications. For research use only.

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