7-epi-Taxol

Cat. No.: HY-N0227

CAS No.: 105454-04-4

Molecular Formula: $C_{47}H_{51}NO_{14}$

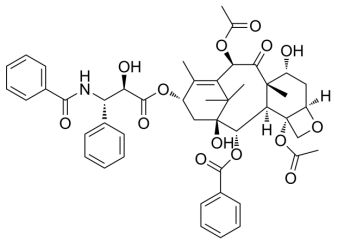
Molecular Weight: 853.91

Target: Microtubule/Tubulin

Pathway: Cell Cycle/DNA Damage; Cytoskeleton

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (117.11 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.1711 mL	5.8554 mL	11.7108 mL
	5 mM	0.2342 mL	1.1711 mL	2.3422 mL
	10 mM	0.1171 mL	0.5855 mL	1.1711 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 (2.93 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (2.93 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

7-epi-Taxol is an active metabolite of taxol, with activity comparable to that of taxol against cell replication, promoting microtubule bundle formation and against microtubule depolymerization.

IC_{50} & Target

Microtubule/Tubulin[2]

In Vitro

7-epi-Taxol (7-Epitaxol) is a metabolite of taxol[1]. 7-epi-Taxol has activity comparable to that of taxol on cell replication, microtubule bundle formation and in vitro microtubule polymerization[2].

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

CUSTOMER VALIDATION

- Am J Cancer Res. 2023 May 15;13(5):2172-2187.
- PLoS One. 2019 Jul 3;14(7):e0210377.

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REFERENCES

[1]. Royer I, et al. Paclitaxel metabolites in human plasma and urine: identification of 6 alpha-hydroxytaxol, 7-epitaxol and taxol hydrolysis products using liquid chromatography/atmospheric-pressure chemical ionization mass spectrometry. Rapid Commun Mass Spectrom. 1995;9(6):495-502.

[2]. Ringel I, et al. Taxol is converted to 7-epitaxol, a biologically active isomer, in cell culture medium. J Pharmacol Exp Ther. 1987 Aug;242(2):692-8.

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

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