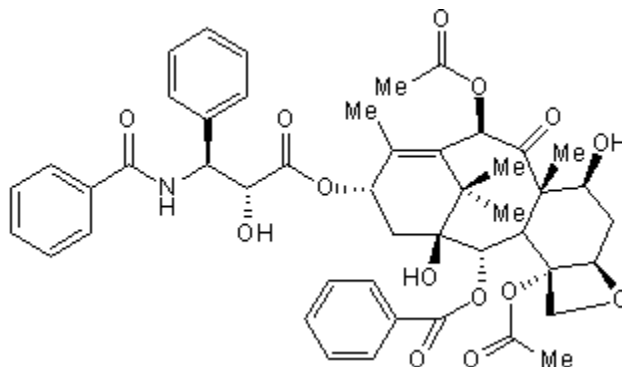


Taxol

Cat. No. 1097



Alternative Name: Paclitaxel

Chemical Name: [2a*R*-[2aα,4β,4aβ,6α,9α(α*R**,β*S**),11α,12α,12aα,12bα]]-β-(Benzoylamino)-α-hydroxy-6,12b-bis(acetyloxy)-12-(benzyloxy)-2a,3,4,4a,5,6,9,10,11,12,12,12b-dodecahydro-4,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1*H*-cyclodeca[3,4]benz[1,2-*b*]oxe t-9-yl ester benzenepropanoic acid

Biological Activity

Antitumor agent; promotes and stabilizes tubulin polymerization, causing cell cycle arrest. Induces autocatalytic activation of caspase-10 in CCRF-HSB-2 cells, triggering apoptosis.

Technical Data

M.Wt:

853.92

Formula:

C₄₇H₅₁NO₁₄

Solubility:

Soluble to 25 mM in ethanol and to 100 mM in DMSO

Purity:

>99 %

Storage:

Store at +4°C

CAS No:

33069-62-4

The technical data provided above is for guidance only.

For batch specific data refer to the Certificate of Analysis.

References

Merck Index 12 7117.

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McGuire et al (1989) Taxol: a unique antineoplastic agent with significant activity in advanced ovarian epithelial neoplasms. Ann.Intern.Med. **111** 273. PMID: [2569287](#).

Rowinsky et al (1990) Taxol: a novel investigational antimicrotubule agent. J.Natl.Cancer Inst. **82** 1247. PMID:[1973737](#).

Rao et al (1999) Characterization of the taxol binding site on the microtubule. J.Biol.Chem. **274** 37990. PMID:[10608867](#).

Park et al (2004) Taxol induces caspase-10-dependent apoptosis. J.Biol.Chem. **279** 51057. PMID: [15452117](#).

If you know of a relevant citation for this product [please let us know](#).

Keywords: Taxol, supplier, Promotes, assembly, inhibits, inhibitor, disassembly, microtubules, Tau, Tubulin, Mitosis, taxanes

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