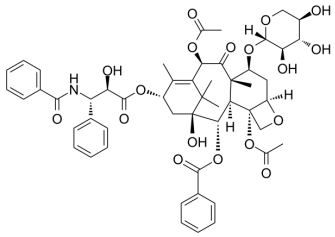
7-xylosyltaxol

Cat. No.:	HY-77574
CAS No.:	90332-66-4
Molecular Formula:	$C_{52}H_{59}NO_{18}$
Molecular Weight:	986.02
Target:	Microtubule/Tubulin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	7-xylosyltaxol(Taxol-7-xyloside) is a taxol (Paclitaxel) derivative; Paclitaxel binds to tubulin and inhibits the disassembly of microtubules.IC50 Value:Target: Microtubule/TubulinPaclitaxel is a compound extracted from the Pacific yew tree with antineoplastic activity. Paclitaxel also induces apoptosis by binding to and blocking the function of the apoptosis inhibitor protein Bcl-2 (B-cell Leukemia 2). Paclitaxel inhibits DNA synthesis and stimulates the release of tumor necrosis factor-α. Paclitaxel induces apoptosis in murine mammary carcinoma MCA-4 and ovarian carcinoma OCA-1 tumors.

REFERENCES

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[3]. Park SJ, Wu CH, Gordon JD, et al. Taxol induces caspase-10-dependent apoptosis. J Biol Chem. 2004 Dec 3;279(49):51057-67. Epub 2004 Sep 27.

[4]. Rao S, He L, Chakravarty S, et al. Characterization of the Taxol binding site on the microtubule. Identification of Arg(282) in beta-tubulin as the site of photoincorporation of a 7-benzophenone analogue of Taxol. J Biol Chem. 1999 Dec 31;274(53):37990-4.

[5]. Paclitaxel

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