

7-Xylosyltaxol

Chemical Properties

CAS No.:	90332-66-4
Formula:	C ₅₂ H ₅₉ NO ₁₈
Molecular Weight:	986.03
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	7-xylosyltaxol is a taxol (Paclitaxel) derivative, has antineoplastic activity.
Targets(IC ₅₀)	Others: None
In vitro	<p>Paclitaxel, the major active component of the yew tree, is used as an important anti-cancer agent. METHODS AND RESULTS:To obtain the monoclonal antibody (MAb) against paclitaxel for paclitaxel determination using immunoassay, 7-Xylosyltaxol was conjugated to the carrier protein bovine serum albumin (BSA) to construct the immunogen, and the ratio of hapten in XylTax-BSA conjugate was determined by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. After immunization of mice with this conjugate, hybridomas secreting MAbs against paclitaxel were obtained by fusing the splenocytes with the mouse myeloma cell line SP2/0. After hybridoma screening, the anti-paclitaxel MAb 3A3 was obtained, which showed a relatively high specificity to paclitaxel (cross-reactivities against other naturally occurred taxanes: 7-Xylosyltaxol, 31.8%; cephalomannine, 6.17%; baccatin III, 10-deacetyl-baccatin III, 1-hydroxybaccatin I, 13-acetyl-9-dihydrobaccatin III and 1-acetoxyl-5-deacetyl-baccatin I, <0.11%). Using the MAb 3A3, we established an indirect competitive enzyme-linked immunosorbent assay (icELISA) for paclitaxel determination with a detection range of 0.098-312.5 µg ml⁻¹. Determination of paclitaxel contents in various yew tree samples with this icELISA resulted in recovery rates ranging from 92 to 94.8%, and intra- and inter-assay variations of 3.6 and 4.7%, respectively. CONCLUSIONS:This icELISA provides a valuable method of paclitaxel determination for various purposes.</p>

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.014 mL	5.071 mL	10.142 mL
5 mM	0.203 mL	1.014 mL	2.028 mL
10 mM	0.101 mL	0.507 mL	1.014 mL
50 mM	0.020 mL	0.101 mL	0.203 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Development of an indirect competitive enzyme-linked immunosorbent assay (icELISA) using highly specific monoclonal antibody against paclitaxel. J Nat Med. 2013 Jul;67(3):512-8.

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