

Product Data Sheet

Product Name: 10-Deacetyl-7-xylosyl paclitaxel

Cat. No.: GC35044

Chemical Properties

Cas. No. 90332-63-1

SMILES CC(O[C@]([C@@]1([H])C[C@@H]2O[C@@](OC[C@@H](O)[C@@H]3O)([H])[C@@H]3O)(CO1)[C@]([C@@H]([C@]4(C(C)(C)C5=C(C)[C@@H](OC([C@H](O)[C@H](C6=CC=CC=C6)NC(C7=CC=CC=C7)=O)=O)C4)O)OC(C8=CC=CC=C8)=O)([H])[C@@]2(C([C@@H]5O)=O)C)=O

Formula C₅₀H₅₇NO₁₇ M.Wt 943.98

Solubility Water: < 0.1 mg/mL (insoluble) Storage 4°C, protect from light

General For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or Condition blue ice upon request.

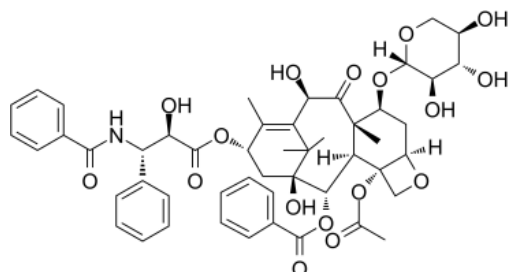
Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

10-Deacetyl-7-xylosyl paclitaxel is a Paclitaxel derivative with improved pharmacological features and higher water solubility. IC50 value: Target: Microtubule inhibitor. 10-Deacetyl-7-xylosyl paclitaxel induced mitotic cell cycle arrest and apoptosis as measured by flow cytometry, DNA laddering, and transmission electron microscopy. Pro-apoptotic Bax and Bad protein expression was up-regulated and anti-apoptotic Bcl-2 and Bcl-XL expression down-regulated, which lead to a disturbance of the mitochondrial membrane permeability and to the activation of caspase-9. In turn, caspase-9 activated downstream caspases-3 and -6, but not caspase-8. Bid was also activated by caspase-3. Reversely, treatment with a caspase-10-specific inhibitor could not protect PC-3 cells from 7-xylosyl-10-deacetyl-paclitaxel-triggered apoptosis. Moreover, 7-xylosyl-10-deacetylpaclitaxel had no effect on the expression of CD95 and NF-kappaB proteins, indicating that apoptosis was induced through the mitochondrial-dependent pathway in PC-3 cells.

[1]. Jiang S, et al. Activation of the mitochondria-driven pathway of apoptosis in human PC-3 prostate

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cancer cells by a novel hydrophilic paclitaxel derivative, 7-xylosyl-10-deacetylpaclitaxel. Int J Oncol. 2008 Jul;33(1):103-11.

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