

Product Data Sheet

Product Name: 7-xylosyltaxol

Cat. No.: GC35197

Chemical Properties

Cas. No. 90332-66-4

SMILES O=C(C1=CC=CC=C1)N[C@@H](C2=CC=CC=C2)[C@@H](O)C(O[C@@H]3C(C)=C([C@@H](OC(C)=O)C([C@@]4(C)[C@]([C@](OC(C)=O)(CO5)[C@@]5([H])C[C@@H]4O[C@@]6([H])[C@H](O)[C@@H](O)[C@H](O)CO6)([H])[C@@H]7OC(C8=CC=CC=C8)=O)=O)C(C)(C)[C@@]7(O)C3)=O

Formula C₅₂H₅₉NO₁₈ M.Wt 986.02

Solubility DMSO: 10 mM Storage Store at -20°C

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

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

Structure

Background

7-Xylosyltaxol is a taxane and derivative of paclitaxel that has been found in *T. chinensis* and has microtubule disruptor and anticancer activities.^{1,2,3} It induces the disassembly of pig brain and *Physarum* microtubules in cell-free assays (IC₅₀s = 0.2 and 0.4 μM, respectively).² 7-Xylosyltaxol inhibits proliferation of A549, MCF-7, A2780, HCT-8, and SW480 cancer cells with IC₅₀ values of 0.39, 0.16, 0.85, 5.9, and 5.6 μM, respectively.³

1. Yu, S.-S., Sun, Q.-W., Zhang, X.-P., et al. Content and distribution of active components in cultivated and wild *Taxus chinensis* var. *mairei* plants. *Ying Yong Sheng Tai Xue Bao* 23(10)2641-2647(2012)
 2. Lataste, H., Senilh, V., Wright, M., et al. Relationships between the structures of taxol and baccatine III derivatives and their in vitro action on the disassembly of mammalian brain and *Physarum* amoebal microtubules. *Proc. Natl. Acad. Sci. USA* 81(13)4090-4094(1984)
 3. Sun, Z.-H., Chen, Y., Guo, Y.-Q., et al. Isolation

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

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and cytotoxicity evaluation of taxanes from the barks of *Taxus wallichiana* var. *mairei* *Bioorg. Med. Chem. Lett.* 25(6)1240-1243(2015)

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