

Product Name: Taxol

Catalog No.: 1097

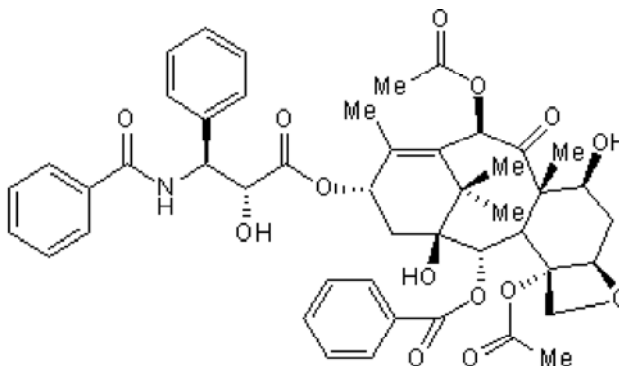
Batch No.: 9

CAS Number: 33069-62-4

IUPAC 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-(benzoyloxy)-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*]oxet-9-yl ester benzenepropanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₄₇ H ₅₁ NO ₁₄ ·¼H ₂ O
Batch Molecular Weight:	858.42
Physical Appearance:	White solid
Solubility:	ethanol to 25 mM with gentle warming DMSO to 100 mM with gentle warming
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.9% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.76	6.05	1.63
Found	65.49	6.02	1.64

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com
techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors
Tel:+1 612 379 2956

Product Name: Taxol

Catalog No.: 1097

9

CAS Number: 33069-62-4

IUPAC Name: [2a*R*-[2a α ,4 β ,4a β ,6 α ,9 α (α *R*^{*}, β *S*^{*}),11 α ,12 α ,12a α ,12b α]]- β -(Benzoylamino)- α -hydroxy-6,12b-bis(acetyloxy)-12-(benzoyloxy)-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*]oxet-9-yl ester benzenepropanoic acid

Description:

Taxol, also known as paclitaxel, promotes and stabilizes tubulin polymerization, causing cell cycle arrest. In CCRF-HSB-2 cells, Taxol induces autocatalytic activation of caspase-10, triggering apoptosis. Taxol is an antitumor agent. In a mouse model of bladder cancer Taxol decreases tumor growth. Taxol also prolongs survival of mice transplanted with human ovarian carcinoma xenografts. Taxol improves neurological outcome and magnetic resonance imaging biomarkers after traumatic brain injury in mice.

Physical and Chemical Properties:

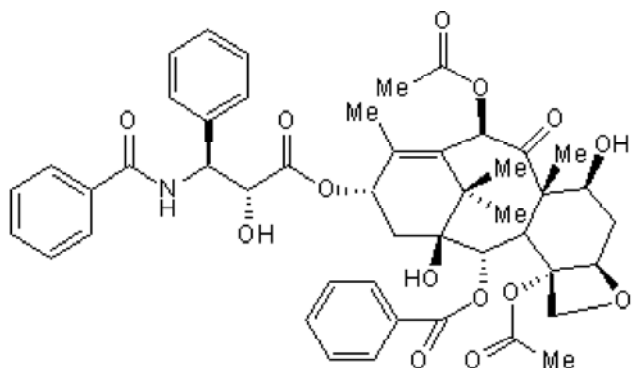
Batch Molecular Formula: C₄₇H₅₁NO₁₄·¼H₂O

Batch Molecular Weight: 858.42

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

ethanol to 25 mM with gentle warming

DMSO to 100 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Cross et al (2015) PacT improves outcome from traumatic brain injury. *Brain Res.* **1618** 299. PMID: 26086366.

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

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

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956