

Product Name: Taxol

Catalog No.: 1097

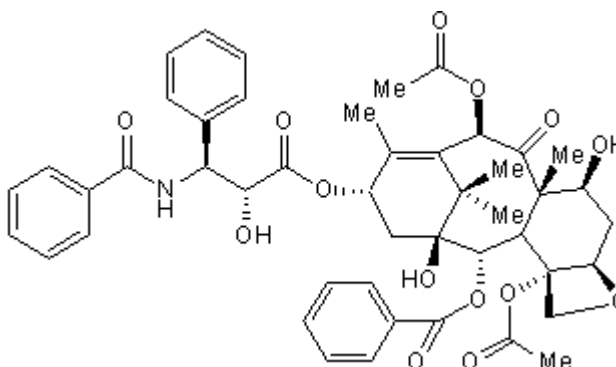
Batch No.: 7

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-(benzyloxy)-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: C₄₇H₅₁NO₁₄·¼H₂O
Batch Molecular Weight: 858.42
Physical Appearance: White solid
Solubility: ethanol to 25 mM
DMSO to 100 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.76	6.05	1.63
Found	65.62	6.11	1.73

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

Tocris Bioscience is an R&D Systems company
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
www.RnDSystems.com

R&D
SYSTEMS®

Product Name: Taxol

Catalog No.: 1097

Batch No.: 7

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:

Antitumor agent; promotes and stabilizes tubulin polymerization, causing cell cycle arrest. Induces autocatalytic activation of caspase-10 in CCRF-HSB-2 cells, triggering apoptosis.

Physical and Chemical Properties:

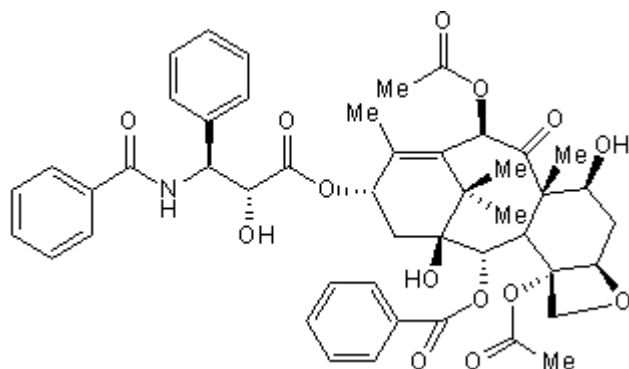
Batch Molecular Formula: C₄₇H₅₁NO₁₄·¼H₂O

Batch Molecular Weight: 858.42

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

ethanol to 25 mM

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:

Merck Index **12** 7117.

McGuire et al (1989) Taxol: a unique antineoplastic agent with significant activity in advanced ovarian epithelial neoplasms. *Ann.Intern.Med.* **111** 273. PMID: 2569287.

Rowinsky et al (1990) Taxol: a novel investigational antimicrotubule agent. *J.Natl.Cancer Inst.* **82** 1247. PMID: 1973737.

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

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

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

Tocris Bioscience is an R&D Systems company
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
www.RnDSystems.com

R&D
SYSTEMS®