Product Name: Taxol
Catalog No.: 1097
Batch No.: 7

CAS Number: 33069-62-4
IUPAC Name: [2aR-2ao,4β,4aβ,6a,9α(qR*,βS*),11α,12α,12aa,12bb]-β-(Benzoylamino)-α-hydroxy-6,12β-bis(acetyloxy)-12-
(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12b-dodecahydro-4,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-
7,11-methano-1H-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}·1/4H_2O
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

2. ANALYTICAL DATA

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

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<th>Nitrogen</th>
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<td>6.11</td>
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</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Taxol

CAS Number: 33069-62-4

IUPAC Name: \([2\alpha R\{-[2\alpha,4\beta,4a,9\alpha(\alpha R^*,\beta S^*),11\alpha,12\alpha,12\alpha,12\beta d]\}-(Benzoylamino)-\alpha-hydroxy-6,12b-bis(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12b-dodecahydro-4,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-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: \(C_{47}H_{57}NO_{14}\cdot\frac{1}{4}H_2O\)
Batch Molecular Weight: 858.42
Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:
etanol 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.

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