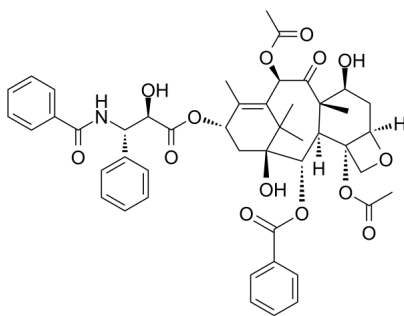


Certificate of Analysis

Catalog Number	BP22564
Product Name	Paclitaxel

Physical and Chemical Properties

CAS No.	33069-62-4
Chemical Formula	C ₄₇ H ₅₁ NO ₁₄
Molecular Weight	853.91
Solubility	DMSO: 100 mg/mL (117.11 mM, Need ultrasonic) H ₂ O: < 0.1 mg/mL (insoluble)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	Paclitaxel is a naturally occurring antineoplastic agent and stabilizes tubulin polymerization. Paclitaxel can cause both mitotic arrest and apoptotic cell death. Paclitaxel also induces autophagy.
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Targets&IC50	Traditional Cytotoxic Agents:
In vitro	Paclitaxel (20 nM; 48 hours) induces programmed cell death and exists a block at the G2/M phase of the cell cycle.Paclitaxel (20 nM; 48 hours) induces a consistent increase in the level of p53.
In vivo	Paclitaxel (1-20 mg/kg; i.p.; 1 time/2 days for five cycles) obviously induces liver metastases at the low-Paclitaxel group with little influence on primary tumor growth.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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