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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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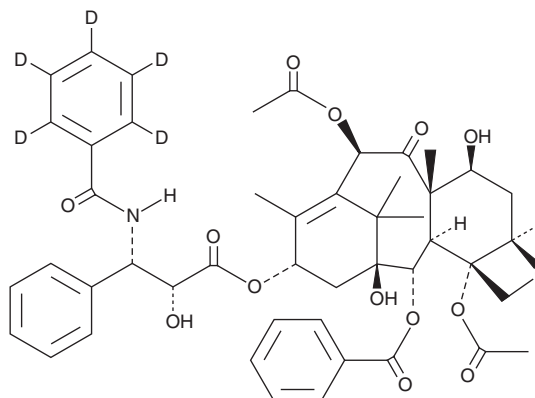
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PRODUCT INFORMATION



Paclitaxel-d₅ Item No. 22092

CAS Registry No.: 1129540-33-5
Formal Name: β S-(benzoyl-2,3,4,5,6-d₅-amino)- α R-hydroxy-benzenepropanoic acid, (2aR, 4S, 4aS, 6R, 9S, 11S, 12S, 12aR, 12bS)-6,12b-bis(acetyloxy)-12-(benzyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,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
MF: C₄₇H₄₆D₅NO₁₄
FW: 859.0
Chemical Purity: $\geq 98\%$ (Paclitaxel)
Deuterium Incorporation: $\geq 99\%$ deuterated forms (d₁-d₅); $\leq 1\%$ d₀
Supplied as: A solid
Storage: -20°C
Stability: ≥ 3 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Paclitaxel-d₅ contains five deuterium atoms. It is intended for use as an internal standard for the quantification of paclitaxel (Item No. 10461) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

Paclitaxel-d₅ is supplied as a solid. A stock solution may be made by dissolving the paclitaxel-d₅ in the solvent of choice. Paclitaxel-d₅ is slightly soluble in methanol and chloroform.

Description

Paclitaxel is cytotoxic against a variety of cancer cell lines with IC₅₀ values ranging from 2.5-7.5 nM.¹ It disrupts multipolar spindle formation, inducing cell cycle arrest in various human cell cancer lines (IC₅₀s = 6.7-18.5 nM) at both prophase and G₁.² It also initiates apoptosis of cancer cells through multiple mechanisms involving p53-dependent and -independent pathways, Bcl-2 family members, cyclin-dependent kinases, and c-Jun N-terminal kinases/stress-activated protein kinases.³

References

1. Liebmman, J.E., Cook, J.A., Lipschultz, C., *et al.* Cytotoxic studies of paclitaxel (Taxol) in human tumour cell lines. *Br. J. Cancer* **68**(6), 1104-1109 (1993).
2. Woods, C.M., Zhu, J., McQueney, P.A., *et al.* Taxol-induced mitotic block triggers rapid onset of a p53-independent apoptotic pathway. *Mol. Med.* **1**(5), 506-526 (1995).
3. Wang, T.h., Wang, H.S., and Soong, Y.K. Paclitaxel-induced cell death: Where the cell cycle and apoptosis come together. *Cancer* **88**(11), 2619-2628 (2000).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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