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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION

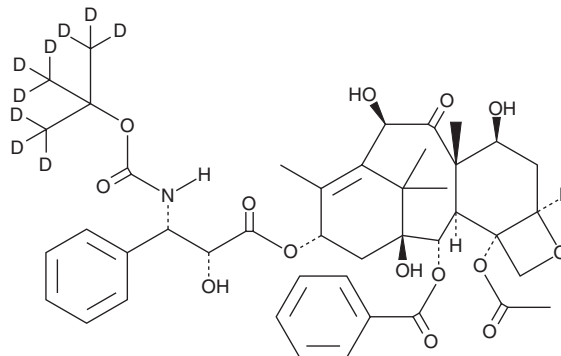


Docetaxel-d₉ Item No. 22094

CAS Registry No.: 940867-25-4
Formal Name: (αR,βS)-β-[[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-benzenepropanoic acid, β-[[[1,1-di(methyl-d₃)ethoxy-2,2,2-d₃]carbonyl]amino]-α-hydroxy-12b-(acetyloxy)-12-(benzoyloxy)-2aR,3,4S,4aS,5,6R,9S,10,11S,12S,12aR,12bS-dodecahydro-4,6,11-trihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester

Synonym: Taxotel-d₉
MF: C₄₃H₄₄D₉NO₁₄
FW: 816.9
Chemical Purity: ≥98% (Docetaxel)

Deuterium Incorporation: ≥99% deuterated forms (d₁-d₉); ≤1% d₀
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

Docetaxel-d₉ is intended for use as an internal standard for the quantification of docetaxel (Item No. 11637) 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).

Docetaxel-d₉ is supplied as a solid. Docetaxel-d₉ is slightly soluble in chloroform and methanol.

Description

Docetaxel is a semisynthetic analog of paclitaxel (Item No. 10461) that inhibits microtubule disassembly (IC₅₀ = 0.2 μM) and inhibits cell replication (IC₅₀ = 0.13 μM).¹ It has proven more effective than paclitaxel in preventing the proliferation of cancer cells.^{1,2} Docetaxel has potential applications in breast cancer and hormone-refractory prostate cancer.^{3,4}

References

1. Bissery, M. C., Guenard, D., Gureritte-Voegelein, F. *et al.* Experimental antitumor activity of taxotere (RP 56976, NSC 628503), a taxol analogue. *Cancer Research* **51**(18), 4845-4852 (1991).
2. Pazdur, R., Kudelka, A.P., Kavanagh, J.J., *et al.* The taxoids: Paclitaxel (Taxol[®]) and docetaxel (Taxotere[®]). *Cancer Treatment Reviews* **19**(4), 351-386 (1993).
3. Mahon, K. L., Henshall, S.M., Sutherland, R.L. *et al.* Pathways of chemotherapy resistance in castration-resistant prostate cancer. *Endocrine-Related Cancer* **18**, R103-R123 (2011).
4. Yao, X., Hosenpud, J., Chitambar, C.R., *et al.* A phase II study of concurrent docetaxel, epirubicin and cyclophosphamide as a neoadjuvant chemotherapy regimen in patients with locally advanced breast cancer. *Journal of Cancer* **3**, 145-151 (2012).

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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