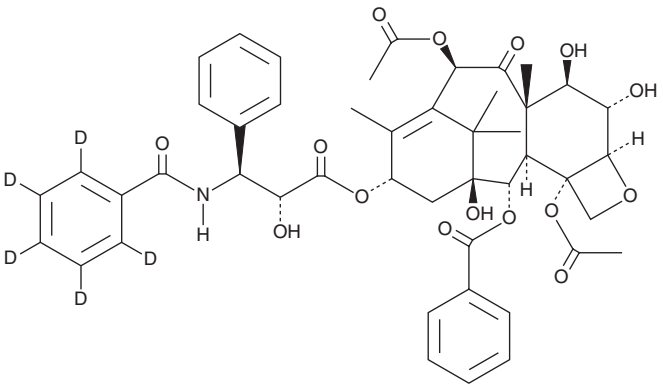
PRODUCT INFORMATION

6α-hydroxy Paclitaxel-d_5

Item No. 40926

CAS Registry No.: 1315376-90-9
Formal Name: (αR,βS)-β-(benzoyl-2,3,4,5,6-d_5-amino)-α-hydroxy-benzenepropanoic acid, (2aR,3S,4R,4aS,6R,9S,11S,12S,12aR,12bS)-6,12b-*bis*(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-3,4,11-trihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester
Synonym: 6α-hydroxy Taxol-d_5
MF: $C_{47}H_{46}D_5NO_{15}$
FW: 874.9
Chemical Purity: ≥98% (6α-hydroxy Paclitaxel)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_5); ≤1% d_0
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Item Origin: Synthetic



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

Laboratory Procedures

6α-hydroxy Paclitaxel-d_5 is intended for use as an internal standard for the quantification of 6α-hydroxy Paclitaxel (Item No. 10009027) 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).

6α-hydroxy Paclitaxel-d_5 is supplied as a solid. A stock solution may be made by dissolving the 6α-hydroxy Paclitaxel-d_5 in the solvent of choice, which should be purged with an inert gas. 6α-hydroxy Paclitaxel-d_5 is soluble in methanol, DMSO, and dimethyl formamide.

Description

6α-hydroxy Paclitaxel is a metabolite of the antimitotic and anticancer agent paclitaxel (Item No. 10461).[1] It is formed from paclitaxel by the cytochrome P450 (CYP) isoform CYP2C8.[1,2]

References

1. Kumar, G.N., Oatis, J.E., Jr., Thornburg, K.R., *et al.* 6 alpha-Hydroxytaxol: Isolation and identification of the major metabolite of taxol in human liver microsomes. *Drug Metab. Dispos.* **22**, 177-179 (1994).
2. Walle, T., Kumar, G.N., McMillian, J.M., *et al.* Taxol metabolism in rat hepatocytes. *Biochem. Pharmacol.* **46(9)**, 1661-1664 (1993).

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