7-epi Paclitaxel
Item No. 20741

CAS Registry No.: 105454-04-4
Formal Name: (αR,βS)-β-(benzoylamino)-α-hydroxy-benzene propanoic acid, (2aR,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-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
Synonym: 7-epi Taxol
MF: C_{47}H_{51}NO_{14}
FW: 853.9
Purity: ≥98%
UV/Vis.: \(\lambda_{\text{max}}\) 226 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years

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

Laboratory Procedures

7-epi Paclitaxel is supplied as a crystalline solid. A stock solution may be made by dissolving the 7-epi paclitaxel in the solvent of choice, which should be purged with an inert gas. 7-epi Paclitaxel is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of 7-epi paclitaxel in these solvents is approximately 5, 10, and 25 mg/ml, respectively.

7-epi Paclitaxel is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 7-epi paclitaxel should first be dissolved in DMF and then diluted with the aqueous buffer of choice. 7-epi Paclitaxel has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

7-epi Paclitaxel is an active metabolite of paclitaxel (Item No. 10461), a widely used chemotherapeutic compound.\(^1\) It is the major metabolite found in cells, although 6α-hydroxy paclitaxel (Item No. 10009027) is the major biliary metabolite of paclitaxel in humans.\(^1,2\) 7-epi Paclitaxel exhibits properties comparable to paclitaxel on both cells and in vitro microtubule polymerization.\(^2\)

References


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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