PRODUCT INFORMATION

7-epi Paclitaxel
Item No. 20741

CAS Registry No.: 105454-04-4
Formal Name: (aR,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.: λ_{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). It is formed from paclitaxel by hydrolysis. 7-epi Paclitaxel inhibits microtubule polymerization in J774.2 and CHO cells (EC_{50} = 120 and 310 nM, respectively).

References