**PRODUCT INFORMATION**

**7-epi Paclitaxel**

*Item No. 20741*

**CAS Registry No.:** 105454-04-4  
**Formal Name:** (αR,βS)-β-(benzoylamino)-α-hydroxy-benzene-1-propanoic acid, (2aR,4R,4aS,6R,9S,11S,12aR,12bR)-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-cycloocta[3,4]benz[1,2-b]oxet-9-yl ester

**Synonym:** 7-epi Taxol

**MF:** C₄₇H₅₁NO₁₄  
**FW:** 853.9  
**Purity:** ≥98%  
**UV/Vis.:** λₘₐₓ: 226 nm

**Supplied as:** A crystalline solid

**Storage:** -20°C

**Stability:** As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

**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. 7-epi Paclitaxel is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. 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 (Taxol; Item No. 10461), a widely used chemotherapeutic compound. It is the major metabolite found in cells, although 6α-hydroxy paclitaxel (6α-hydroxy Taxol; Item No. 10009027) is the major biliary metabolite of paclitaxel in humans. 7-epi Paclitaxel exhibits properties comparable to paclitaxel on both cells and in vitro microtubule polymerization.

**References**
