

Docetaxel Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Docetaxel

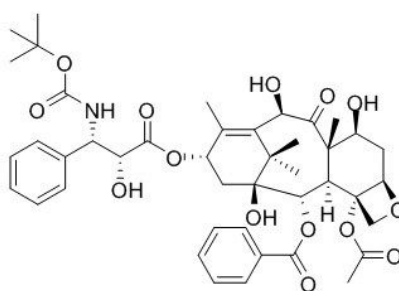
Catalog No.: CFN98517

Cas No.: 114977-28-5

Purity: >=98%

M.F: C₄₃H₅₃NO₁₄

M.W: 807.88



Physical Description: Powder

Synonyms: N-Debenzoyl-N-tert-butoxycarbonyl-10-deacetyl taxol;

(2 α ,5 β ,7 β ,10 β ,13 α)-4-(acetyloxy)-13-(((3S)-3-[(tert-butoxycarbonyl)amino]-2-hydroxy-3-phenylpropanoyl)oxy)-1,7,10-trihydroxy-9-oxo-5,20-epoxytax-11-en-2-yl benzoate;(1 β ,2 α ,5 β ,7 β ,10 β ,13 α)-4-(acetyloxy)-13-(((2R,3S)-3-[(tert-butoxycarbonyl)amino]-2-hydroxy-3-phenylpropanoyl)oxy)-1,7,10-trihydroxy-9-oxo-5,20-epoxytax-11-en-2-yl benzoate; Decetaxel anhydrous.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The barks of *Taxus chinensis* (Pilger) Rehd.

[Biological Activity or Inhibitors]

The improvement in median survival of nearly two months with docetaxel and estramustine, as compared with mitoxantrone and prednisone, provides support for this approach in men with metastatic, androgen-independent prostate cancer.^[1]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[2]

Mobile phase: Acetonitrile- H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 230 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Kreis W. *New Engl. J.Med.*, 2004, 351(15):1513-20.

[2] Rao B M, Chakraborty A, Srinivasu M K, *et al. J.Pharmaceut. Biomed.*, 2006, 41(2):676-81.

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