



LKT Laboratories, Inc.

## Paclitaxel, 8-Hydro-bicyclo(3.3.0)octane

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### Product Information

**Product ID** T1028

**CAS No.** 146139-03-9

**Chemical Name** Paclitaxel, 8-Hydro-bicyclo(3.3.0)octane

**Synonym** Paclitaxel Photodegradant; Photodegradant of Paclitaxel, Paclitaxel Impurity 21, BCP33132

**Formula** C<sub>47</sub>H<sub>51</sub>NO<sub>14</sub>

**Formula Wt.** 853.92

**Melting Point**

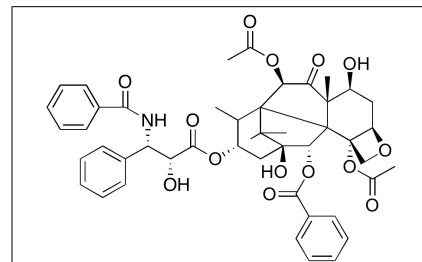
**Purity** ≥95%

**Solubility**

**Store Temp** -80°C

**Ship Temp** Ambient

**Description** Paclitaxel, 8-Hydro-bicyclo(3.3.0)octane is an impurity of the chemotherapy drug paclitaxel. It is a photodegradant impurity.



### Pricing and Availability

**Bulk quantities available upon request**

| Product ID | Size  | List Price |
|------------|-------|------------|
| T1028      | 1 mg  | \$303.70   |
| T1028      | 5 mg  | \$1119.30  |
| T1028      | 10 mg | \$1786.10  |
| T1028      | 25 mg | \$3274.50  |

**References** Nicolaou K, Yang Z, Liu J, et al. Total synthesis of taxol. *Nature*. 1994 Feb 17;367(6464):630-634. PMID: 7906395.

Nicolaou K, Valiulin R. Synthesis and biological evaluation of new paclitaxel analogs and discovery of potent antitumor agents. *Org Biomol Chem*. 2013 Jul 7;11(25):4154-4163. PMID: 23685867.

Sanchez-Munoz R, Perez-Mata E, Almagro L, et al. A novel hydroxylation step in the taxane biosynthetic pathway: a new approach to paclitaxel production by synthetic biology. *Front Bioeng Biotechnol*. 2020 May 13;8::410. PMID: 32528936.

Guo B, Kai G, Jin H, et al. Taxol synthesis. *African J Biotechnol*. 2006 Jan 2;5(1):15-20.

Wang T, Chen Y, Zhuang W, et al. Transcriptome sequencing reveals regulatory mechanisms of taxol synthesis in *Taxus wallichiana* var. *Mairei*. *Int J Genomics*. 2019 May 2;2019:1596895. PMID: 31192250.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.