



LKT Laboratories, Inc.

7-(Triethylsilyl)-baccatin III

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Product Information

Product ID T0090

CAS No. 115437-21-3

Chemical Name

Synonym

Formula $C_{37}H_{52}O_{11}Si$

Formula Wt. 700.89

Melting Point

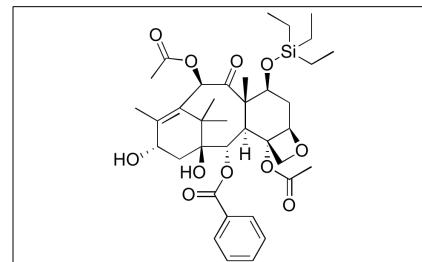
Purity $\geq 98\%$

Solubility

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description 7-Triethylsilyl-baccatin III is a synthetic intermediate in the synthesis of taxol. Baccatin has traditionally been assumed to be devoid of activity, although many studies have indicated that baccatin exhibits anticancer and immunomodulatory activities. Baccatin decreases the mitochondrial membrane potential and induces caspase 10-dependent apoptosis in a variety of cancer cell lines, resulting in inhibition of cell proliferation. Baccatin also increases tubulin assembly and inhibits tubulin disassembly, altering microtubule polymerization. Additionally, this compound increases presentation of antigen on MHC I and II receptors on dendritic cells in vitro and in vivo.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
T0090	5 mg	\$416.00
T0090	10 mg	\$665.50
T0090	25 mg	\$1299.50

References Chakravarthi BV, Sujay R, Kuriakose GC, et al. Inhibition of cancer cell proliferation and apoptosis-inducing activity of fungal taxol and its precursor baccatin III purified from endophytic *Fusarium solani*. *Cancer Cell Int.* 2013 Oct 23;13(1):105. PMID: 24152585.

Lee YH, Lee YR, Kim KH, et al. Baccatin III, a synthetic precursor of taxol, enhances MHC-restricted antigen presentation in dendritic cells. *Int Immunopharmacol.* 2011 Aug;11(8):985-91. PMID: 21354357.

Ge H, Spletstoser JT, Yang Y, et al. Synthesis of docetaxel and butitaxel analogues through kinetic resolution of racemic beta-lactams with 7-O-triethylsilylbaccatin III. *J Org Chem.* 2007 Feb 2;72(3):756-9. PMID: 17253791.

Chatterjee SK, Barron DM, Vos S, et al. Baccatin III induces assembly of purified tubulin into long microtubules. *Biochemistry.* 2001 Jun 12;40(23):6964-70. PMID: 11389612.

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