



LKT Laboratories, Inc.

Baccatin III

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Product Information

Product ID T0095

CAS No. 27548-93-2

Chemical Name 7,11-Methano-5H-cyclodeca(3,4)benz(1,2-b)oxet-5-one-6,12b-bis(acetyloxy)-12-(benzoyloxy)-1,2a,3,4,4a,6,- 9,10,11,12,12a,12b-dodecahydro-4,9,11-trihydroxy-4a,- 8,13,13-tetramethyl-, (2aR-

Synonym

Formula C₃₁H₃₈O₁₁

Formula Wt. 586.63

Melting Point 229-234 °C

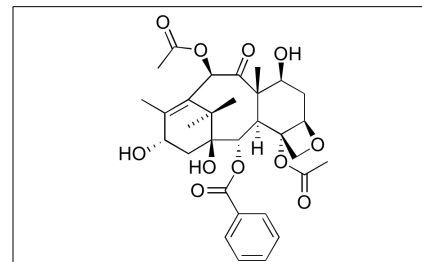
Purity ≥98%

Solubility Soluble in DMSO or ethanol. Insoluble in water.

Store Temp -20 °C

Ship Temp Ambient

Description Baccatin III is a diterpene found in *Taxus* and various fungal organisms that exhibits immunomodulatory and anticancer chemotherapeutic activities. Unlike most taxanes, baccatin III does not bind tubulin; it is primarily used in the synthesis of taxol. In animal models of breast cancer and colon cancer, baccatin III decreases tumor growth by suppressing accumulation of myeloid-derived suppressor cells. In other various cancer cell lines, this compound induces apoptosis and inhibits proliferation in a caspase 10-dependent manner. In bone marrow dendritic cells, baccatin III increases MHC class I and II antigen presentation; similarly, it increases cytotoxic T lymphocyte responses in vivo.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
T0095	5 mg	\$91.20
T0095	10 mg	\$180.80
T0095	25 mg	\$385.60

References Lee YH, Lee YR, Park CS, et al. Baccatin III, a precursor for the semisynthesis of paclitaxel, inhibits the accumulation and suppressive activity of myeloid-derived suppressor cells in tumor-bearing mice. *Int Immunopharmacol.* 2014 Aug;21(2):487-93. PMID: 24957690.

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.

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