**Baccatin III**

**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(acetoxy)-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** $C_{31}H_{38}O_{11}$

**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.

**References**


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