



## Product Information

**Product ID** B1603

**CAS No.** 26048-05-5

**Chemical Name** (3S,6R,9S,12R,15S,18R)-3,9,15-tribenzyl-4,10,16-trimethyl-6,12,18-tri(propan-2-yl)-1,7,13-trioxa-4,10,16-triazacyclooctadecane-2,5,8,11,14,17-hexone

**Synonym**

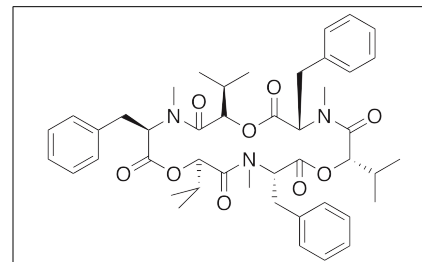
**Formula** C<sub>45</sub>H<sub>57</sub>N<sub>3</sub>O<sub>9</sub>

**Formula Wt.** 783.95

**Melting Point** 147-148 °C

**Purity** ≥95%

**Solubility** Insoluble in water. Soluble in ethanol, DMSO, DMF, methanol, acetonitrile.



## Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
B1603	1 mg	\$105.50
B1603	5 mg	\$422.50

**Store Temp** 4 °C

**Ship Temp** Ambient

**Description** Beauvericin is a cyclic hexadepsipeptide mycotoxin initially produced by species of *Cordyceps*. Beauvericin exhibits pro-oxidative and anticancer activities. In colon adenocarcinoma cells, beauvericin induces oxidative stress by increasing ROS levels and decreasing glutathione levels and also induces mitochondria-dependent apoptosis by decreasing the mitochondrial membrane potential. In non-small cell lung cancer (NSCLC) cells, beauvericin upregulates Bax, Bak, and p-Bad, downregulates p-Bcl-2, activates caspase 3, and increases release of cytochrome c, resulting in apoptosis and cell death. Additionally, this compound stimulates influx of Ca<sup>2+</sup> into cells.

**References** Prosperini A, Juan-García A, Font G, et al. Beauvericin-induced cytotoxicity via ROS production and mitochondrial damage in Caco-2 cells. *Toxicol Lett.* 2013 Oct 24;222(2):204-11. PMID: 23850777.

Chen BF, Tsai MC, Jow GM. Induction of calcium influx from extracellular fluid by beauvericin in human leukemia cells. *Biochem Biophys Res Commun.* 2006 Feb 3;340(1):134-9. PMID: 16343425.

Lin HI, Lee YJ, Chen BF, et al. Involvement of Bcl-2 family, cytochrome c and caspase 3 in induction of apoptosis by beauvericin in human non-small cell lung cancer cells. *Cancer Lett.* 2005 Dec 18;230(2):248-59. PMID: 16297711.

Harnois DM, Que FG, Celli A, et al. Bcl-2 is overexpressed and alters the threshold for apoptosis in a cholangiocarcinoma cell line. *Hepatology.* 1997 Oct;26(4):884-90. PMID: 9328309.

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