



Product Information

Product ID T8004

CAS No. 102040-03-9

Chemical Name

Synonym Tubeimoside 1

Formula $C_{63}H_{98}O_{29}$

Formula Wt. 1319.43

Melting Point 250-252 °C

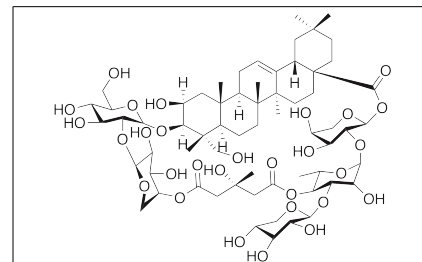
Purity ≥96%

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Tubeimoside I is a triterpene saponin originally found in *Bolbostemma* that exhibits anti-inflammatory, antiviral, anticancer chemotherapeutic, and chemopreventive activities. Tubeimoside I inhibits LPS-stimulated production of TNF- α , IL-1 β , and IL-6, preventing the development of pulmonary edema and infiltration of inflammatory cells in vivo. Tubeimoside I also induces G2/M phase cell cycle arrest and mitochondria-dependent apoptosis in esophageal squamous cell carcinoma cells, inhibiting cell proliferation; in other, similar cellular and animal models, this compound inhibits cell and tumor growth. Tubeimoside I binds tubulin at the colchicine site, inhibiting microtubule polymerization. Additionally, this compound inhibits production of HIV core protein p24 and infectivity of HIV-1 in vitro.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
T8004	10 mg	\$84.10
T8004	25 mg	\$168.30
T8004	100 mg	\$546.60

References Wu Q, Sun G, Yuan X, et al. Tubeimoside-1 attenuates LPS-induced inflammation in RAW 264.7 macrophages and mouse models. *Immunopharmacol Immunotoxicol.* 2013 Aug;35(4):514-23. PMID: 23844578.

Xu Y, Wang G, Chen Q, et al. Intrinsic apoptotic pathway and G2/M cell cycle arrest involved in tubeimoside I-induced EC109 cell death. *Chin J Cancer Res.* 2013 Jun;25(3):312-21. PMID: 23825908.

Ma R, Song G, You W, et al. Anti-microtubule activity of tubeimoside I and its colchicine binding site of tubulin. *Cancer Chemother Pharmacol.* 2008 Sep;62(4):559-68. PMID: 18030471.

Yu L, Ma R, Wang Y, et al. Potent anti-tumor activity and low toxicity of tubeimoside 1 isolated from *Bolbostemma paniculatum*. *Planta Med.* 1994 Jun;60(3):204-8. PMID: 8073083.

Yu LJ, Ma RD, Jiang SB. Effects of tubeimoside-1 on HIV core protein p24 and cytopathogenesis in vitro. *Zhongguo Yao Li Xue Bao.* 1994 Mar;15(2):103-6. PMID: 8010099.

Yu LJ, Ma RD, Wang YQ, et al. Potent anti-tumorigenic effect of tubeimoside 1 isolated from the bulb of *Bolbostemma paniculatum* (Maxim) Franquet. *Int J Cancer.* 1992 Feb 20;50(4):635-8. PMID: 1537629.

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