

# Tubeimoside I Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

## [ Product Information ]

**Name:** Tubeimoside I

**Catalog No.:** CFN99990

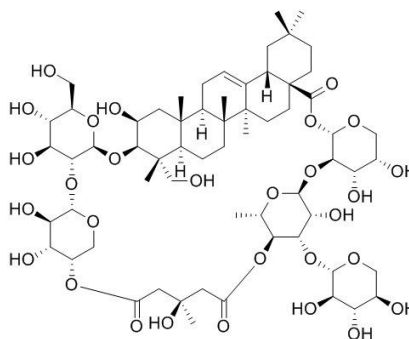
**Cas No.:** 102040-03-9

**Purity:**  $\geq 98\%$

**M.F:** C<sub>63</sub>H<sub>98</sub>O<sub>29</sub>

**M.W:** 1319.46

**Physical Description:** Powder



**Synonyms:** Hydroxy-3-methyl-1-oxobutyl)- $\alpha$ -L-arabinopyra ; Lobatoside H;

Nosyl]- $\beta$ -D-glucopyranosyl]oxy]-2,23-dihydroxy-,28-(O- $\beta$ -D-xylopyranosyl-(1 $\rightarrow$ 3)-O-6-deoxy- $\alpha$ -L-mannopyranosyl-(1 $\rightarrow$ 2)- $\alpha$ -L-arabinopyranosyl)ester,intramol.ester, [2 $\beta$ ,3 $\beta$ (S),4 $\alpha$ ]-; Tubeimoside A.

## [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

## [ Source ]

The bulbs of *Bolbostemma paniculatum*.

## **[ Biological Activity or Inhibitors ]**

Tubeimoside I shows potent antitumor and antitumor-promoting effects, it can open the permeability transition (PT) pore, thereby decreasing Deltapsim, releasing Cyt c from mitochondria, and further causing a series of events consistent with established mechanistic models of apoptosis.<sup>[1]</sup>

Tubeimoside I shows potent anti-microtubule activity, it can inhibit binding of known tubulin ligands, display growth inhibitory activity against CNE-2Z cells with IC.<sup>[2]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

## **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: Methanol -H<sub>2</sub>O=65:35 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 214 nm.

## **[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.

## **[ References ]**

[1] Wang F, Ma R L. *Cancer Chemother. Pharmacol.*, 2006,57(3):389-99.

[2] Ma R, Yu T, Song G, *et al.* *Cancer Chemother. Pharmacol.*,2008,62(4):559-68.

[3] Cui H M, Cheng H P, Liu X M. *Chinese Journal of Information on Traditional Chinese Medicine*,2008, 15(11):37-8.

## **[ Contact ]**

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