[ **Product Information** ]

**Name:** Dendrobine  
**Catalog No.:** CFN99133  
**Cas No.:** 2115-91-5  
**Purity:** > 98%  
**M.F:** $C_{16}H_{25}NO_2$  
**M.W:** 263.38  
**Physical Description:** Cryst.  
**Synonyms:** (2aS,4aS,5R,6S,7R,7aS,7bR)-decahydro-1,7b-dimethyl-6-(1-methylethyl)-7,5-(Epoxymethano)-1H-cyclopent[cd]indol-9-one; 12-Oxodendrobane.

[ **Intended Use** ]

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

[ **Source** ]

The herb of *Dendrobium nobile Lindl.*
[Biological Activity or Inhibitors]

Dendrobine, isolated from Dendrobium nobile, an antagonist of β-alanine, taurine and of presynaptic inhibition in the frog spinal cord.\[1\]

Dendrobine has antitumor activity, it can inhibit the growth of A549 cells through inducing apoptosis, which is partially dependent on mitochondrial-mediated pathway; dendrobine treatment decreased mitochondrial membrane potential (MMP), improved the expression of Bax and inhibited the expression of Bcl-2, therefore it was supposed that dendrobine treatment decreased the MMP through regulating the expression of Bcl-2 and Bax; dendrobine releases cytochrome c and promotes caspase 9 activation indicating that dendrobine induces apoptosis is partially caspase-dependent.\[2\]

[ Solvent ]

Chloroform, Dichloromethane, DMSO, Acetone.

[HPLC Method]\[3\]

Mobile phase: Methanol - 0.1% Triethylamine, gradient elution ;
Flow rate: 1.0 ml/min;
Column temperature: 30 ℃;
The wave length of determination: 240 nm.

[ Storage ]

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

[ References ]


[ Contact ]

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