

Diosbulbin D Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Diosbulbin D

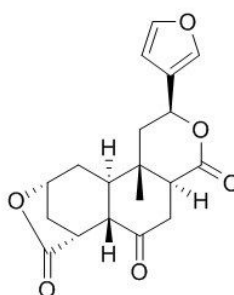
Catalog No.: CFN97140

Cas No.: 66756-57-8

Purity: > 95%

M.F: C₁₉H₂₀O₆

M.W: 344.4



Physical Description: Powder

Synonyms: (2S)-2 β -(3-Furyl)-4a α ,5,6a β ,7,10,11,11a α ,11b-octahydro-11b β -methyl-7 β ,10 β -methano-2H-pyrano[4,3-g][3]benzoxepine-4,6,8(1H)-trione.

[Intended Use]

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

[Source]

The roots of *Dioscorea bulbifera*.

[Biological Activity or Inhibitors]

Diosbulbin-D shows toxic effect on hepatocytes and a significant increase in intracellular release levels of LDH and the liver enzymes, alanine aminotransferase and aspartate aminotransferase confirmed diosbulbin-D's toxic effect, suggests that Diosbulbin-D shows direct toxic effect on hepatocytes, the mechanism could be associated with oxidative stress.^[1]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[2]

Mobile phase: Methanol- 0.1 % Acetic acid H₂O, gradient elution ;

Flow rate: 0.8 ml/min;

Column temperature: 30 °C;

The wave length of determination: 300 nm.

[Storage]

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

[References]

[1] Min M A, Jiang Z Z, Ruan J L, *et al. Chinese Journal of Natural Medicines*, 2011, 9(4):280-5.

[2] Zhao Y, Pu H Y, Liu S M. *Information on Traditional Chinese Medicine*, 2008, 25(3):60-2

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