[ Product Information ]

Name: Ophiopogonin D

Catalog No.: CFN98156

Cas No.: 41753-55-3

Purity: >=98%

M.F: C_{44}H_{70}O_{16}

M.W: 855.02

Physical Description: Powder

Synonyms: beta-D-xylopyranosyl-6-deoxy-alpha-L-mannopyranosyl-(1->2)-6-deoxy-1-C-[\(8\xi,9\xi,14\xi,22\xi,25R\)-3-hydroxyspirost-5-en-1-yl]-beta-D-gulopyranoside.

[ Intended Use ]

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

[ Source ]

The roots of Ophiopogon japonicus.
Ophiopogonin D plays a protective role as an effective antioxidant in H2O2-induced endothelial injury, it can be therefore developed as a novel drug for the therapy of cardiovascular disorders.[1]

Ophiopogonin D can attenuate doxorubicin-induced autophagic cell death by relieving mitochondrial damage in vitro and in vivo.[2]

Ophiopogonin D and spicatoside A can increase mucin production and secretion, by directly acting on airway epithelial cells, they could be as expectorants in diverse inflammatory pulmonary diseases. [3]

Ophiopogonin D inhibits MCF-7 cell growth via the induction of cell cycle arrest at the G2/M phase.[4]

[ solvent ]

Pyridine, Methanol, Ethanol, etc.

[ HPLC Method ]

HPLC-ELSD:
Mobile phase: Acetonitrile- H2O, gradient elution;
Flow rate: 1.0 ml/min;
Column temperature: 25 °C;
Atomization temperature: 70 °C;
Evaporation temperature: 90 °C;
Flow rate of gas: 1.5 SLM.

[ Storage ]

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

[ References ]


[ Contact ]

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