

Product Data Sheet

Product Name: Ophiopogonin D

Cat. No.: GN10756

Chemical Properties

Cas. No. 945619-74-9

Chemical Name
Ophiopogonin D

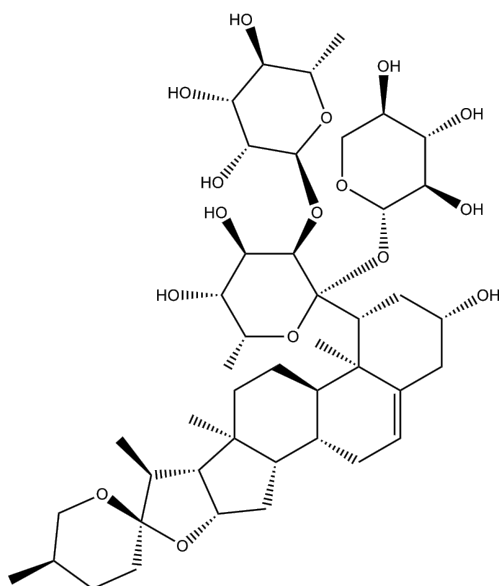
Formula $C_{44}H_{70}O_{16}$ M.Wt 854.47

Solubility DMSO : 100 mg/mL (116.96 mM; Need ultrasonic) Storage 4°C, protect from light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Ophiopogonin D, isolated from the tubers of *Ophiopogon japonicus*, is a rare naturally occurring C29 steroidal glycoside[1]. Ophiopogonin D is a CYP2J3 inducer that significantly inhibits Ang II induced NF-κB nuclear translocation, IκBα down-regulation, intracellular Ca²⁺ overload and activation of pro-

Caution: Product has not been fully validated for medical applications. For research use only.

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inflammatory cytokines by increasing the expression of CYP2J2/EETs and PPAR α in human umbilical vein endothelial cells (HUVECs). Ophiopogonin D has been used to treat inflammatory and cardiovascular diseases for thousands of years[2].

References:

- [1]. Wang L , et al. Homo-aro-cholestane, furostane and spirostane saponins from the tubers of Ophiopogon japonicus. Phytochemistry. 2017 Apr;136:125-132.
- [2]. Huang X, et al. Ophiopogonin D and EETs ameliorate Ang II-induced inflammatory responses via activating PPAR α in HUVECs. Biochem Biophys Res Commun. 2017 Aug 19;490(2):123-133.

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