

## Ophiopogonin D'

## Chemical Properties

CAS No.:	65604-80-0
Formula:	C <sub>44</sub> H <sub>70</sub> O <sub>16</sub>
Molecular Weight:	855.02
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Ophiopogonin D' can activate SIRT1, it also noncompetitively inhibits UGT1A6 and UGT1A10.
Targets(IC <sub>50</sub> )	SIRT1: None UGT1A6: None
In vitro	In vitro incubation system to model UGT reaction was used. Recombinant UGT isoforms-catalyzed 4-methylumbelliferone (4-MU) glucuronidation and UGT1A4-catalyzed trifluoperazine (TFP) glucuronidation reactions were employed to phenotype the inhibition profile of maidong's components towards the activity of UGT isoforms. Different inhibition potential of maidong's components towards various UGT isoforms was observed. Based on the inhibition kinetic investigation results, ophiopogonin D (OD) noncompetitively inhibited UGT1A6 and competitively inhibited UGT1A8, Ophiopogonin D' (OD') noncompetitively inhibited UGT1A6 and UGT1A10, and ruscorectal (RU) exhibited competitive inhibition towards UGT1A4. The inhibition kinetic parameters were calculated to be 20.6, 40.1, 5.3, 9.0, and 0.02 $\mu$ M, respectively.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.17 mL	5.848 mL	11.696 mL
5 mM	0.234 mL	1.17 mL	2.339 mL
10 mM	0.117 mL	0.585 mL	1.17 mL
50 mM	0.023 mL	0.117 mL	0.234 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. The Inhibition of the Components from Shengmai Injection towards UDP-Glucuronosyltransferase.Evid Based Complement Alternat Med. 2014;2014:594354.

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