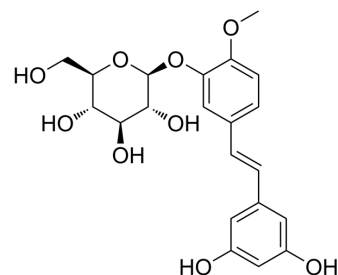


Rhapontigenin 3'-O-glucoside

Cat. No.:	HY-N2233
CAS No.:	94356-22-6
Molecular Formula:	C ₂₁ H ₂₄ O ₉
Molecular Weight:	420.41
Target:	Cytochrome P450
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (237.86 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		2.3786 mL	11.8932 mL	23.7863 mL
	5 mM		0.4757 mL	2.3786 mL	4.7573 mL
	10 mM		0.2379 mL	1.1893 mL	2.3786 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Rhapontigenin 3'-O-glucoside is a derivative of Rhapontigenin. Rhapontigenin is a potent inactivator of human P450 1A1 and is a good candidate for a cancer chemopreventive agent^[1].

In Vitro

Rhapontigenin exhibits a potent and selective inhibition of human P450 1A1 with an IC₅₀ of 0.4 μM. Rhapontigenin shows 400-fold selectivity for P450 1A1 over P450 1A2 and 23-fold selectivity for P450 1A1 over P450 1B1^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Biomed Res Int. 2021 Sep 9;2021:9066938.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Chun YJ, et al. Mechanism-based inhibition of human cytochrome P450 1A1 by rhapontigenin. Drug Metab Dispos. 2001 Apr;29(4 Pt 1):389-93.

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

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