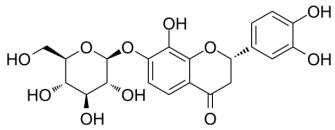
Flavanomarein

Cat. No.:	HY-N7675
CAS No.:	577-38-8
Molecular Formula:	$C_{21}H_{22}O_{11}$
Molecular Weight:	450.39
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 33.33 mg/mL (74.00 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2203 mL	11.1015 mL	22.2030 mL
	5 mM	0.4441 mL	2.2203 mL	4.4406 mL
	10 mM	0.2220 mL	1.1101 mL	2.2203 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (5.55 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.55 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Flavanomarein is a predominant flavonoid of Coreopsis tinctoria Nutt with protective effects against diabetic nephropathy. Flavanomarein has good antioxidative, antidiabetic, antihypertensive and anti-hyperlipidemic activities[1][2].

REFERENCES

[1]. Nan-Nan Zhang, et al. Flavanomarein inhibits high glucose-stimulated epithelial-mesenchymal transition in HK-2 cells via targeting spleen tyrosine kinase. Sci Rep. 2020 Jan 16;10(1):439.

[2]. Liang Le, et al. The protective effects of the native flavanone flavanomarein on neuronal cells damaged by 6-OHDA. Phytomedicine. 2019 Feb;53:193-204.

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

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