Reynoutrin

Cat. No.: HY-N1354

CAS No.: 549-32-6

Molecular Formula: $C_{20}H_{18}O_{11}$

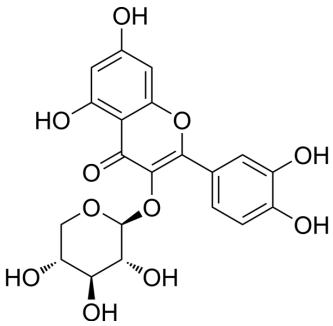
Molecular Weight: 434.35

Target: Reactive Oxygen Species

Pathway: Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 150 mg/mL (345.34 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.3023 mL	11.5115 mL	23.0229 mL
5 mM	0.4605 mL	2.3023 mL	4.6046 mL
10 mM	0.2302 mL	1.1511 mL	2.3023 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 (5.76 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.76 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.76 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Reynoutrin (Quercetin-3-D-xyloside) is a flavonoid from Psidium cattleianum, with antioxidant and radical-scavenging activity[1].

In Vitro

Reynoutrin shows potent antioxidant activity, with pEC_{50} of 5.37 against fluorescein oxidation[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Univerzita Karlova v Praz. 2021 Oct.

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REFERENCES

[1]. Ho R, et al. Antioxidant potential and radical-scavenging effects of flavonoids from the leaves of Psidium cattleianum grown in French Polynesia. at Prod Res. 2012;26(3):274-7.

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