
Product Data Sheet

Product Name: Reynoutrin

Cat. No.: GC34758

Chemical Properties

Cas. No. 549-32-6

SMILES O=C1C(O[C@H]2[C@@H]([C@H]([C@@H](CO2)O)O)=C(C3=CC=C(O)C(O)=C3)OC4=CC(O)=CC(O)=C14

Formula $C_{20}H_{18}O_{11}$ M.Wt 434.35

Solubility DMSO : 150 mg/mL (345.34 mM) Storage Store at -20°C

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**

Quercetin 3-O-β-D-xylopyranoside is a flavonoid glycoside that has been found in *N. candida* and has diverse biological activities.^{1,2,3} It reduces malondialdehyde (MDA) levels in isolated rat brain when used at a concentration of 10 μg/ml.¹ Quercetin 3-O-β-D-xylopyranoside (10, 50, and 100 μg/ml) reduces LPS- and cerulein-induced increases in reactive oxygen species (ROS) production and levels of GRP78, a marker of endoplasmic reticulum stress, in an AR42J rat pancreatic acinar cell model of pancreatitis.² *In vivo*, quercetin 3-O-β-D-xylopyranoside (12.5, 25, and 50 mg/kg) decreases serum TNF-α and IL-6 levels, myocardial MDA levels, and myocardial fibrosis, as well as improves cardiac function, in a rat model of ischemic heart failure.³

1.Liu, R.-N., Wang, W., Ding, Y., et al. A new flavonol glycoside and activity of compounds from the flower of *Nymphaea candida* J. Asian Nat. Prod. Res.9(3-5)333-338(2007) 2.Seo, J.Y., Pandey, R.P., Lee, J., et al. Quercetin 3-O-xyloside ameliorates acute pancreatitis in vitro via the reduction of ER stress and enhancement of apoptosis *Phytomedicine*5540-49(2019) 3.Yang, W., Tu, H., Tang, K., et al. Reynoutrin improves ischemic heart failure in

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

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rats via targeting S100A1Front. Pharmacol.12703962(2021)

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