
Product Data Sheet

Product Name: Eriodictyol-7-O-glucoside

Cat. No.: GC62957

Chemical Properties

Cas. No. 38965-51-4

Formula $C_{21}H_{22}O_{11}$

M.Wt 450.39

Solubility DMSO : 100 mg/mL (222.03 mM; Need ultrasonic)

Storage

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

Eriodictyol 7-O-glucoside is a flavanone glucoside that has been found in *V. coloratum* and has diverse biological activities.^{1,2,3} It scavenges hydroxyl and superoxide anion radicals in cell-free assays (IC₅₀s = 0.28 and 0.3 mM, respectively).¹ Eriodictyol 7-O-glucoside activates nuclear factor E2-related factor 2 (Nrf2) in a reporter assay.² It protects against cytotoxicity induced by cisplatin in human renal mesangial cells (HRMCs), but not A549 lung or MDA-MB-231 breast cancer cells, when used at a concentration of 80 μM. Eriodictyol 7-O-glucoside (30 mg/kg) attenuates neurological deficits and reduces infarct volume in a rat model of cerebral ischemia induced by middle cerebral artery occlusion (MCAO).³

1. Yao, H., Liao, Z.-X., Wu, Q., et al. Antioxidative flavanone glycosides from the branches and leaves of *Viscum coloratum* Chem. Pharm. Bull. (Tokyo) 54(1)133-135(2006)
2. Hu, Q., Zhang, D.D., Wang, L., et al. Eriodictyol-7-O-glucoside, a novel Nrf2 activator, confers protection against cisplatin-induced toxicity Food Chem. Toxicol. 50(6)1927-1932(2012)
3. Jing, X., Ren, D., Wei, X., et al. Eriodictyol-7-O-glucoside activates Nrf2 and protects against cerebral ischemic injury Toxicol. Appl. Pharmacol. 273(3)672-679(2013)

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

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