
Product Data Sheet

Product Name: 4',7-Di-O-methylnaringenin

Cat. No.: GC38624

Chemical Properties

Cas. No. 29424-96-2

SMILES O=C1C[C@@H](C2=CC=C(OC)C=C2)OC3=CC(OC)=CC(O)=C13

Formula $C_{17}H_{16}O_5$

M.Wt 300.31

Solubility DMSO : 100 mg/mL (332.99 mM; Need ultrasonic) 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

4',7-Di-O-methylnaringenin is a flavonoid aglycone that has been found in *Vitex quinata* and has potassium channel inhibitory and anticancer activities.^{1,2} It inhibits the voltage-gated potassium channel subtype $K_v1.3$ in a patch-clamp assay when used at a concentration of 30 μ M.¹ 4',7-Di-O-methylnaringenin is cytotoxic to human LNCaP prostate, Lu1 lung, and MCF-7 breast cancer cells (EC_{50} s = 6.7, 4.7, and 1.1 μ M, respectively).²

1. Teisseyre, A., Duarte, N., Ferreira, M.-J.U., et al. Influence of the multidrug transporter inhibitors on the activity of $K_v1.3$ voltage-gated potassium channels. *Physiol. Pharmacol.* 60(1)69-76(2009) 2. Deng, Y., Chin, Y.-W., Chai, H.-B., et al. Phytochemical and bioactivity studies on constituents of the leaves of *Vitex quinata*. *Phytochem. Lett.* 4(3)213-217(2011)

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

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