

Product Data Sheet

Product Name: (R)-Liquiritigenin

Cat. No.: GC79783

Chemical Properties

Cas. No. 211178-39-1

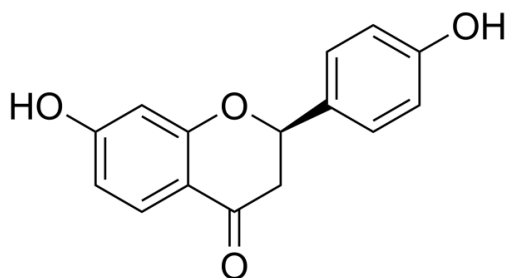
Formula $C_{15}H_{12}O_4$ M.Wt 256.25

Solubility DMSO: ≥ 10 mg/mL (39.02 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

(R)-Liquiritigenin ((R)-4',7-Dihydroxyflavanone) is a MAO inhibitor that acts as an inhibitor of recombinant human MAO-A (IC_{50} 9.97 μM) and recombinant human MAO-B (IC_{50} 3.91 μM). (R)-Liquiritigenin is applicable to the research of neurodegenerative diseases [1].

In Vitro, (R)-Liquiritigenin (0.001-100 μM ; 10 min pre-incubation, 20 min enzyme-substrate incubation) preferentially inhibits recombinant human MAO-B over MAO-A, with an IC_{50} of 3.91 μM for MAO-B and 9.97 μM for MAO-A [1].

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

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References:

[1]. Mohamed EI, et al. Monoamine oxidases inhibitors from *Colvillea racemosa*: Isolation, biological evaluation, and computational study. *Fitoterapia*. 2018 Jan;124:217-223.

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