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**Product Data Sheet**

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Product Name: Semilicoisoflavone B

Cat. No.: GC37624

**Chemical Properties**

Cas. No. 129280-33-7

SMILES O=C1C(C2=CC(O)=C3C(C=CC(C)(C)O3)=C2)=COC4=CC(O)=CC(O)=C14Formula C<sub>20</sub>H<sub>16</sub>O<sub>6</sub>

M.Wt 352.34

Solubility DMSO : 50 mg/mL (141.91 mM; ultrasonic and warming and heat to 60°C)

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**

Semilicoisoflavone B, an isoflavone, mainly derived from Glycyrrhiza uralensis Fisch.. Semilicoisoflavone B reduces amyloid  $\beta$  (A $\beta$ ) secretion by inhibiting  $\beta$ -secretase-1 (BACE1) expression and activity. Semilicoisoflavone B decreases BACE1 expression mainly through increasing PPAR $\gamma$  expression and inhibiting STAT3 phosphorylation[1].

[1]. Gu MY, et al. Glycyrrhiza uralensis and Semilicoisoflavone B Reduce A $\beta$  Secretion by Increasing PPAR $\gamma$  Expression and Inhibiting STAT3 Phosphorylation to Inhibit BACE1 Expression. Mol Nutr Food Res. 2018 Mar;62(6):e1700633.

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

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