

Product Data Sheet

Semilicoisoflavone B

Cat. No.: HY-N1280 CAS No.: 129280-33-7 Molecular Formula: $C_{20}H_{16}O_6$ Molecular Weight: 352.34

Target: Amyloid-β

Pathway: Neuronal Signaling

Storage: -20°C, sealed storage, away from moisture and light

* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture

and light)

SOLVENT & SOLUBILITY

In Vitro

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

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.8382 mL	14.1908 mL	28.3817 mL
	5 mM	0.5676 mL	2.8382 mL	5.6763 mL
	10 mM	0.2838 mL	1.4191 mL	2.8382 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (3.55 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (3.55 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

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

REFERENCES

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

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

Tel: 609-228-6898 Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Page 2 of 2 www.MedChemExpress.com