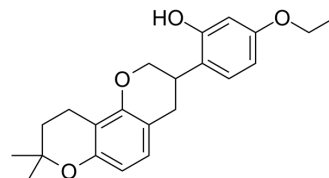


Vutiglabridin

Cat. No.:	HY-145605		
CAS No.:	1800188-47-9		
Molecular Formula:	C ₂₂ H ₂₆ O ₄		
Molecular Weight:	354.44		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (282.14 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.8214 mL	14.1068 mL	28.2135 mL
	5 mM	0.5643 mL	2.8214 mL	5.6427 mL
	10 mM	0.2821 mL	1.4107 mL	2.8214 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.05 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.05 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	Vutiglabridin (HSG4112), a racemic compound, is a potent anti-obesity agent ^[1] . Vutiglabridin, an optimized structural analog of Glabridin, markedly supersedes Glabridin in weight reduction efficacy and chemical stability ^[1] .	
In Vivo	<p>Vutiglabridin (HSG4112) fully reverses adiposity in HFD-induced obese mice in a dose-dependent manner. Vutiglabridin (orally administered with 10, 30, or 100 mg/kg dose for 6 weeks) dose-dependently reduces body weight and normalizes obesity-related parameters in high-fat diet (HFD)-induced obese mice^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	
	Animal Model:	HFD-induced obese male C57BL/6J mice ^[2]

Dosage:	10, 30, and 100 mg/kg
Administration:	Orally administered for 6 weeks
Result:	Led to significant dose-dependent body weight reduction by 4.0 g (8.3%), 10 g (21%), and 19 g (40%), respectively, compared to the 48.1 g body weight of HFD-induced obese mice administered with only the vehicle at 10, 30, and 100 mg/kg.

REFERENCES

- [1]. In Yong Bae, et al. Species Differences in Stereoselective Pharmacokinetics of HSG4112, A New Anti-Obesity Agent. *Pharmaceutics*. 2020 Feb 3;12(2):127.
- [2]. Leo Sungwong Choi, et al. Discovery and preclinical efficacy of HSG4112, a synthetic structural analog of glabridin, for the treatment of obesity. *Int J Obes (Lond)*. 2021 Jan;45(1):130-142.

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