Secoisolariciresinol diglucoside

Cat. No.:	HY-105008		
CAS No.:	257930-74-8	8	
Molecular Formula:	$C_{_{32}}H_{_{46}}O_{_{16}}$		
Molecular Weight:	686.7		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

SOLVENT & SOLUBILITY

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	1.4562 mL	7.2812 mL	14.5624 mL
		5 mM	0.2912 mL	1.4562 mL	2.9125 mL
		10 mM	0.1456 mL	0.7281 mL	1.4562 mL
	Please refer to the so	lubility information to select the app	ropriate solvent.		

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Description	Secoisolariciresinol diglucoside ((S,S)-SDG), the main lignan in wholegrain flaxseed, is known for its beneficial effects including anti-inflammatory, antioxidant, anti-mutagenic, anti-microbial, anti-obesity, hypolipidemic, and neuroprotective effects ^{[1][2]} .
In Vitro	Secoisolariciresinol diglucoside (1-500 μM) possesses strong reducing power and high free radical scavenging activity for hydroxyl, peroxyl and DPPH free radicals ^[1] . Secoisolariciresinol diglucoside (1-50 μM; 24 h) attenuates human monocyte adhesion to and migration across human brain endothelial monolayers ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Secoisolariciresinol diglucoside (4 mg/mouse; a single p.o.) diminishes leukocyte adhesion and migration across blood-

Product Data Sheet

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Hand feeding mice (10 weeks old, male) are injected with $TNF\alpha^{[2]}$
4 mg/mouse
P.o. 2 h before i.c. administration of $TNF\alpha$
Attenuated adhesion of leukocytes to the endothelium by 50% and attenuated migratic

CUSTOMER VALIDATION

- Biomed Pharmacother. 2023 Jun 1;164:114964.
- Int Immunopharmacol. 2020 Jan;78:105931.
- Drug Dev Res. 2022 Apr 26.
- Mediat Inflamm. 2020 Jun 24;2020:3621261.

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REFERENCES

[1]. Mishra OP, et al. Synthesis and antioxidant evaluation of (S,S)- and (R,R)-secoisolariciresinol diglucosides (SDGs). Bioorg Med Chem Lett. 2013 Oct 1;23(19):5325-8.

[2]. Rom S, et, al. Secoisolariciresinol diglucoside is a blood-brain barrier protective and anti-inflammatory agent: implications for neuroinflammation. J Neuroinflammation. 2018 Jan 27;15(1):25.

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

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