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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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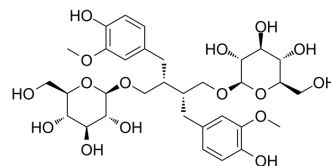
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(R,R)-Secoisolariciresinol diglucoside

Cat. No.:	HY-N6937		
CAS No.:	158932-33-3		
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

In Vitro

DMSO : 100 mg/mL (145.62 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		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 solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (3.03 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (3.03 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (3.03 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(R,R)-Secoisolariciresinol diglucoside ((R,R)-SDG) is the minor isomer of Secoisolariciresinol diglucoside in flaxseed. (R,R)-Secoisolariciresinol diglucoside ((R,R)-SDG) possesses antioxidant and free radical scavenging activities and DNA-radioprotective properties. (R,R)-Secoisolariciresinol diglucoside ((R,R)-SDG) inhibits myeloperoxidase (MPO) activity by suppressing both the peroxidase and chlorination cycles in inflammatory cells^{[1][2][3]}.

REFERENCES

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- [1]. Mishra OP, et al. Novel synthetic (S,S) and (R,R)-secoisolariciresinol diglucosides (SDGs) protect naked plasmid and genomic DNA From gamma radiation damage. Radiat Res. 2014 Jul;182(1):102-10.
- [2]. 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.
- [3]. Mishra OP, et al. Synthetic secoisolariciresinol diglucoside (LGM2605) inhibits myeloperoxidase activity in inflammatory cells. Biochim Biophys Acta Gen Subj. 2018 Jun;1862(6):1364-1375.
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Caution: Product has not been fully validated for medical applications. For research use only.

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