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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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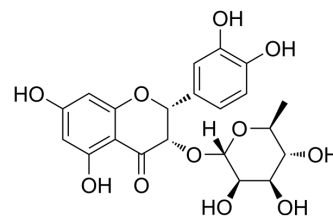
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Isoastilbin

Cat. No.:	HY-N4005
CAS No.:	54081-48-0
Molecular Formula:	C ₂₁ H ₂₂ O ₁₁
Molecular Weight:	450.39
Target:	Bacterial; Tyrosinase
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 16.67 mg/mL (37.01 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.2203 mL	11.1015 mL	22.2030 mL
		5 mM		0.4441 mL	2.2203 mL	4.4406 mL
		10 mM		0.2220 mL	1.1101 mL	2.2203 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: ≥ 1.67 mg/mL (3.71 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.67 mg/mL (3.71 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 1.67 mg/mL (3.71 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Isoastilbin is a dihydroflavonol glycoside compound in Rhizoma Smilacis glabrae and Astragalus membranaceus. Isoastilbin inhibits glucosyltransferase (GTase) with an IC ₅₀ value of 54.3 μg/mL, and also inhibits tyrosinase activity. Isoastilbin shows neuroprotective, antioxidation, antimicrobial and anti-apoptotic properties and has the potential for Alzheimer's disease research ^{[1][21][3]} .
IC ₅₀ & Target	IC ₅₀ : 54.3 μg/mL (Glucosyltransferase (GTase)) ^[2]

REFERENCES

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- [1]. Hong Yu, et al. Protective Roles of Isoastilbin Against Alzheimer's Disease via Nrf2-mediated Antioxidation and anti-apoptosis. *Int J Mol Med*. 2019 Mar;43(3):1406-1416.
- [2]. Harlinda Kuspradini, et al. Antimicrobial activity against *Streptococcus sobrinus* and glucosyltransferase inhibitory activity of taxifolin and some flavanone rhamnosides from kempas (*Koompassia malaccensis*) extracts. *J. Wood Sci.*, 2009, 55(4):308-13.
- [3]. Batubara, Irmanida, et al. Anti-acne and Tyrosinase Inhibition Properties of Taxifolin and Some Flavanone Rhamnosides from Kempas. *Wood Research Journal*, 2010, 1(1):45-9.
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Caution: Product has not been fully validated for medical applications. For research use only.

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