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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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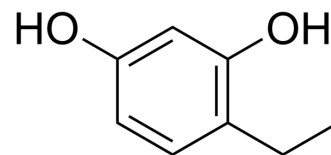
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4-Ethylresorcinol

Cat. No.:	HY-W015782		
CAS No.:	2896-60-8		
Molecular Formula:	C ₈ H ₁₀ O ₂		
Molecular Weight:	138.17		
Target:	Tyrosinase		
Pathway:	Metabolic Enzyme/Protease		
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 (723.75 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	7.2375 mL	36.1873 mL	72.3746 mL
	5 mM	1.4475 mL	7.2375 mL	14.4749 mL
	10 mM	0.7237 mL	3.6187 mL	7.2375 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: ≥ 2.5 mg/mL (18.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (18.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (18.09 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

4-Ethylresorcinol, a derivative of resorcinol, can act as substrates of tyrosinase. 4-Ethylresorcinol possess hypopigmentary effects. 4-Ethylresorcinol attenuates mRNA and protein expression of tyrosinase-related protein (TRP)-2, and possessed antioxidative effect by inhibiting lipid peroxidation^{[1][2]}.

REFERENCES

[1]. Jimenez AG, et, al. Characterization of the action of tyrosinase on resorcinols. Bioorg Med Chem. 2016 Sep 15;24(18):4434-4443.

[2]. Lam RYY, et, al. Mechanistic studies of anti-hyperpigmentary compounds: elucidating their inhibitory and regulatory actions. Int J Mol Sci. 2014 Aug 21;15(8):14649-68.

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

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