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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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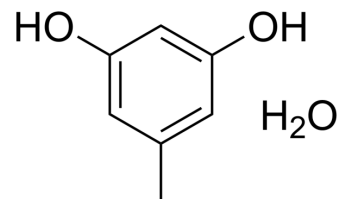
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5-Methylresorcinol monohydrate

Cat. No.:	HY-W015715
CAS No.:	6153-39-5
Molecular Formula:	C ₇ H ₁₀ O ₃
Molecular Weight:	142.15
Target:	Tyrosinase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (703.48 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	7.0348 mL	35.1741 mL	70.3482 mL	
		5 mM	1.4070 mL	7.0348 mL	14.0696 mL	
		10 mM	0.7035 mL	3.5174 mL	7.0348 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (17.59 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (17.59 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	5-Methylresorcinol monohydrate (Orcinol monohydrate) is a tyrosinase inhibitor. 5-Methylresorcinol monohydrate shows cytotoxicity. 5-Methylresorcinol monohydrate also is an oral active and cross the blood-brain barrier anxiolytic agent ^{[1][2]} .	
In Vitro	5-Methylresorcinol monohydrate (Orcinol monohydrate) (100, 200, 500 μM; 24, 72 h) shows cytotoxicity for B16, Hs68 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Cell Cytotoxicity Assay ^[1]	
	Cell Line:	B16, Hs68 cells
	Concentration:	100, 200, 500 μM

	Incubation Time:	24, 72 h
	Result:	Showed cytotoxicity with the inhibition rate of 101.7% for Hs68 cells at 24 h and 104.4% inhibition rate for B16 cells at 72 h.
In Vivo	5-Methylresorcinol monohydrate (2.5, 5 mg/kg; p.o.) shows anxiolytic activity without sedative effects [2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	18-22 g Male CD-1 mice ^[2]
	Dosage:	2.5, 5 mg/kg
	Administration:	P.o.
	Result:	Increased the time spent in open arms and the number of entries into open arms in the elevated plus-maze test, increased the number of head-dips in the hole-board test; did not significantly affect the locomotion of mice in the open-field test.

REFERENCES

[1]. Chen YH, et al. Skin whitening capability of shikimic acid pathway compound. Eur Rev Med Pharmacol Sci. 2016;20(6):1214-20.

[2]. Wang X, et al. Anxiolytic effects of orcinol glucoside and orcinol monohydrate in mice. Pharm Biol. 2015 Jun;53(6):876-81.

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

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