



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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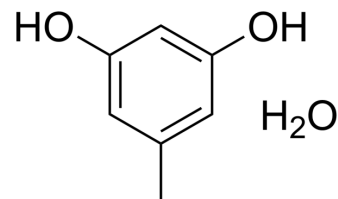
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## 5-Methylresorcinol monohydrate

<b>Cat. No.:</b>	HY-W015715
<b>CAS No.:</b>	6153-39-5
<b>Molecular Formula:</b>	C <sub>7</sub> H <sub>10</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	142.15
<b>Target:</b>	Tyrosinase
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	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 <sup>[1][2]</sup> .	
<b>In Vitro</b>	5-Methylresorcinol monohydrate (Orcinol monohydrate) (100, 200, 500 μM; 24, 72 h) shows cytotoxicity for B16, Hs68 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay <sup>[1]</sup>	
	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.
<b>In Vivo</b>	5-Methylresorcinol monohydrate (2.5, 5 mg/kg; p.o.) shows anxiolytic activity without sedative effects <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	18-22 g Male CD-1 mice <sup>[2]</sup>
	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.

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

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