



# SZABO SCANDIC

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## Produktinformation



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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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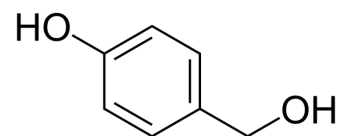
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## 4-Hydroxybenzyl alcohol

<b>Cat. No.:</b>	HY-Y0892		
<b>CAS No.:</b>	623-05-2		
<b>Molecular Formula:</b>	C <sub>7</sub> H <sub>8</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	124.14		
<b>Target:</b>	Apoptosis; Endogenous Metabolite		
<b>Pathway:</b>	Apoptosis; Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (402.77 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM		8.0554 mL	40.2771 mL	80.5542 mL
		5 mM		1.6111 mL	8.0554 mL	16.1108 mL
10 mM			0.8055 mL	4.0277 mL	8.0554 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (20.14 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (20.14 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (20.14 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

<b>Description</b>	4-Hydroxybenzyl alcohol is a phenolic compound widely distributed in various kinds of plants. Anti-inflammatory, anti-oxidant, anti-nociceptive activity. Neuroprotective effect. Inhibitor of tumor angiogenesis and growth <sup>[1][2][3][4]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Human Endogenous Metabolite
<b>In Vitro</b>	4-Hydroxybenzyl alcohol inhibits proliferation of eEND2 cells and suppresses the migration of eEND2 cells, accompanied by inhibition of actin filament reorganization <sup>[2]</sup> .

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4-Hydroxybenzyl alcohol induces apoptotic death of tumor cells<sup>[3]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### In Vivo

4-Hydroxybenzyl alcohol possesses antiangiogenic, anti-inflammatory and anti-nociceptive activity possibly via its down-regulating activity on NO production<sup>[1]</sup>.

4-Hydroxybenzyl alcohol (200 mg/kg) efficiently inhibits growth and angiogenesis of developing tumors<sup>[3]</sup>.

4-Hydroxybenzyl alcohol ameliorates ischemic injury induced by transient focal cerebral ischemia in rats, and this neuroprotective effect may be partly related to attenuate apoptosis pathway<sup>[4]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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### CUSTOMER VALIDATION

- Ann N Y Acad Sci. 2023 Sep 2.

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### REFERENCES

[1]. Lim EJ, et al. Anti-angiogenic, anti-inflammatory and anti-nociceptive activity of 4-hydroxybenzyl alcohol. J Pharm Pharmacol. 2007 Sep;59(9):1235-40.

[2]. Laschke MW, et al. In vitro and in vivo evaluation of the anti-angiogenic actions of 4-hydroxybenzyl alcohol. Br J Pharmacol. 2011 Jun;163(4):835-44.

[3]. Laschke MW, et al. 4-hydroxybenzyl alcohol: a novel inhibitor of tumor angiogenesis and growth. Life Sci. 2013 Jul 19;93(1):44-50.

[4]. Yu SS, et al. Neuroprotective effect of 4-hydroxybenzyl alcohol against transient focal cerebral ischemia via anti-apoptosis in rats. Brain Res. 2010 Jan 13;1308:167-75.

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

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