## 4-Hydroxybenzyl alcohol

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

### SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	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 sc	lubility information to select the ap	propriate solvent.				
Solubil 2. Add ea Solubil 3. Add ea		. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (20.14 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (20.14 mM); Clear solution					
		Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (20.14 mM); Clear solution					

BIOLOGICAL ACTIVITY		
Description	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> .	
IC <sub>50</sub> & Target	Human Endogenous Metabolite	
In Vitro	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> .	

# Product Data Sheet

HO

OH

	<b>4-Hydroxybenzyl alcohol induces apoptotic death of tumor cells</b> <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.

### **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.

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

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