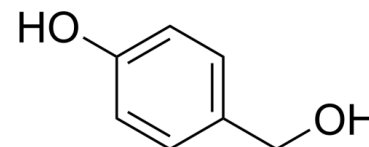


Data Sheet

Product Name:	4-Hydroxybenzyl alcohol
Cat. No.:	CS-W019891
CAS No.:	623-05-2
Molecular Formula:	C ₇ H ₈ O ₂
Molecular Weight:	124.14
Target:	Apoptosis; Endogenous Metabolite
Pathway:	Apoptosis; Metabolic Enzyme/Protease
Solubility:	DMSO : 100 mg/mL (805.54 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

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^{[1][2][3][4]}. *In Vitro*: 4-Hydroxybenzyl alcohol inhibits proliferation of eEND2 cells and suppresses the migration of eEND2 cells, accompanied by inhibition of actin filament reorganization^[2].

4-Hydroxybenzyl alcohol induces apoptotic death of tumor cells^[3].

In Vivo: 4-Hydroxybenzyl alcohol possesses antiangiogenic, anti-inflammatory and anti-nociceptive activity possibly via its down-regulating activity on NO production^[1].

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

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^[4].

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.

CAIndexNames:

Benzenemethanol, 4-hydroxy-

SMILES:

OCC1=CC=C(O)C=C1

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

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