



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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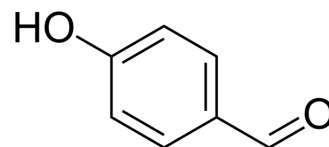
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## p-Hydroxybenzaldehyde

Cat. No.:	HY-Y0313
CAS No.:	123-08-0
Molecular Formula:	C <sub>7</sub> H <sub>6</sub> O <sub>2</sub>
Molecular Weight:	122.12
Target:	Endogenous Metabolite; GABA Receptor
Pathway:	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (818.87 mM; Need ultrasonic)					
	H <sub>2</sub> O : 10 mg/mL (81.89 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	8.1887 mL	40.9433 mL	81.8867 mL
			5 mM	1.6377 mL	8.1887 mL	16.3773 mL
10 mM			0.8189 mL	4.0943 mL	8.1887 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 14.29 mg/mL (117.02 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (20.47 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (20.47 mM); Clear solution					
	4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (20.47 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	p-Hydroxybenzaldehyde is a one of the major components in vanilla aroma, with antagonistic effect on GABA <sub>A</sub> receptor of the α <sub>1</sub> β <sub>2</sub> γ <sub>2</sub> S subtype at high concentrations.	
IC <sub>50</sub> & Target	Human Endogenous Metabolite	Human Endogenous Metabolite

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**In Vitro**

p-Hydroxybenzaldehyde (4-hydroxybenzaldehyde) is one of the major components in *Dendrocalamus asper* bamboo shoots, with an antagonistic effect on GABA<sub>A</sub> receptors of the  $\alpha_1\beta_2\gamma_2S$  subtype at high concentrations. p-Hydroxybenzaldehyde (101.7  $\mu\text{M}$ ) significantly reduces the GABA-induced chloride current of GABA<sub>A</sub> receptors expressed on *Xenopus* oocytes<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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**REFERENCES**

[1]. Zhang J, et al. The Effect of 4-hydroxybenzaldehyde on the  $\gamma$ -aminobutyric Acid Type A Receptor. *Malays J Med Sci*. 2017 Mar;24(2):94-99.

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

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