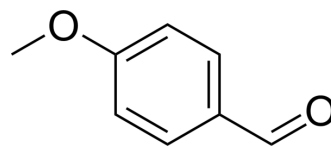


## 4-Methoxybenzaldehyde

Cat. No.:	HY-Y0740
CAS No.:	123-11-5
Molecular Formula:	C <sub>8</sub> H <sub>8</sub> O <sub>2</sub>
Molecular Weight:	136.15
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
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 (734.48 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	7.3448 mL	36.7242 mL	73.4484 mL
		5 mM	1.4690 mL	7.3448 mL	14.6897 mL
	10 mM	0.7345 mL	3.6724 mL	7.3448 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (18.36 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (18.36 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (18.36 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	4-Methoxybenzaldehyde is a naturally occurring fragrant phenolic compound. 4-Methoxybenzaldehyde has been found in many plant species including horseradish, anise, star anise. 4-Methoxybenzaldehyde is a possible neurotoxicant and it has shown effects that include mortality, attractancy, and interference with host seeking [1].
IC <sub>50</sub> & Target	Human Endogenous Metabolite

### REFERENCES

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[1]. Showler AT , et al. Effects of the Botanical Compound p-Anisaldehyde on Horn Fly (Diptera: Muscidae) Repellency, Mortality, and Reproduction. J Med Entomol. 2018 Jan 10;55(1):183-192.

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

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