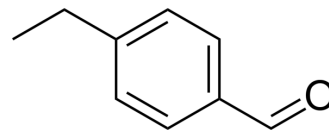


## 4-Ethylbenzaldehyde

Cat. No.:	HY-W012657
CAS No.:	4748-78-1
Molecular Formula:	C <sub>9</sub> H <sub>10</sub> O
Molecular Weight:	134.18
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 (745.27 mM; Need ultrasonic)  
H<sub>2</sub>O : 2.27 mg/mL (16.92 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		7.4527 mL	37.2634 mL	74.5268 mL
	5 mM		1.4905 mL	7.4527 mL	14.9054 mL
	10 mM		0.7453 mL	3.7263 mL	7.4527 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 5 mg/mL (37.26 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (18.63 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (18.63 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (18.63 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

4-Ethylbenzaldehyde is an endogenous metabolite.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

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

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