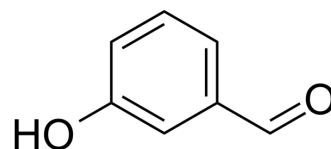


3-Hydroxybenzaldehyde

Cat. No.:	HY-76006
CAS No.:	100-83-4
Molecular Formula:	C ₇ H ₆ O ₂
Molecular Weight:	122.12
Target:	Aldehyde Dehydrogenase (ALDH)
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 (818.87 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (20.47 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (20.47 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (20.47 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	3-Hydroxybenzaldehyde is a precursor compound for phenolic compounds, such as Protocatechualdehyde (HY-N0295). 3-Hydroxybenzaldehyde is a substrate of aldehyde dehydrogenase (ALDH) in rats and humans (ALDH2). 3-Hydroxybenzaldehyde has vasculoprotective effects in vitro and in vivo ^[1] .
IC ₅₀ & Target	ALDH2

REFERENCES

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

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