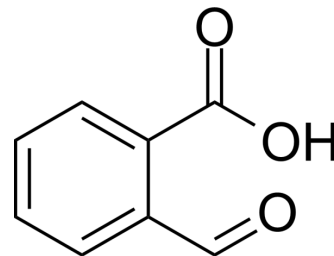


2-Carboxybenzaldehyde

Cat. No.:	HY-Y1771
CAS No.:	119-67-5
Molecular Formula:	C ₈ H ₆ O ₃
Molecular Weight:	150.13
Target:	Drug 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 (666.09 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	6.6609 mL	33.3045 mL	66.6089 mL
		5 mM	1.3322 mL	6.6609 mL	13.3218 mL
		10 mM	0.6661 mL	3.3304 mL	6.6609 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 (16.65 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (16.65 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	2-Carboxybenzaldehyde is the major metabolite found in phenanthrene metabolism. Phenanthrene can be degraded by <i>Pseudomonas</i> sp. Lphe-2 strain ^[1] .
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REFERENCES

[1]. Dan Ji, et al. Characterization and genomic function analysis of phenanthrene-degrading bacterium *Pseudomonas* sp. Lphe-2. *J Environ Sci Health A Tox Hazard Subst Environ Eng.* 2020;55(5):549-562.

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

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