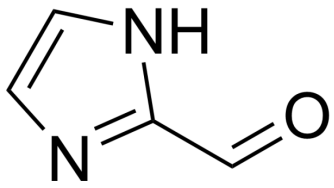
1H-Imidazole-2-carbaldehyde

Cat. No.:	HY-W007321
CAS No.:	10111-08-7
Molecular Formula:	$C_4H_4N_2O$
Molecular Weight:	96.09
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (260.17 mM; Need ultrasonic)

H_2O : 2 mg/mL (20.81 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	10.4069 mL	52.0346 mL	104.0691 mL
5 mM	2.0814 mL	10.4069 mL	20.8138 mL
10 mM	1.0407 mL	5.2035 mL	10.4069 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 (26.02 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (26.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

1H-Imidazole-2-carbaldehyde is a biochemical reagent that can be used as a biological material or organic compound for life science related research.

In Vitro

Imidazole-2-carboxaldehyde is a novel protein tyrosine phosphatase 1B (PTP1B) inhibitor with an important application to suppress type-2 diabetes. It is used in the preparation of tridentate Schiff-base carboxylate-containing ligands by undergoing condensation reaction with amino acids beta-alanine and 2-aminobenzoic acid. It is also involved in the study of the imidazole-directed allylation of aldimines.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

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