



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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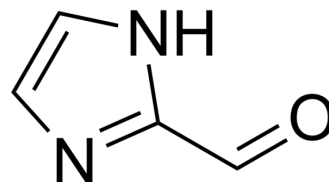
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## 1H-Imidazole-2-carbaldehyde

<b>Cat. No.:</b>	HY-W007321
<b>CAS No.:</b>	10111-08-7
<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>4</sub> N <sub>2</sub> O
<b>Molecular Weight:</b>	96.09
<b>Target:</b>	Biochemical Assay Reagents
<b>Pathway:</b>	Others
<b>Storage:</b>	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 25 mg/mL (260.17 mM; Need ultrasonic)					
	H <sub>2</sub> O : 2 mg/mL (20.81 mM; ultrasonic and warming and heat to 60°C)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		10.4069 mL	52.0346 mL	104.0691 mL
<b>5 mM</b>			2.0814 mL	10.4069 mL	20.8138 mL	
<b>10 mM</b>		1.0407 mL	5.2035 mL	10.4069 mL		
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	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

<b>Description</b>	1H-Imidazole-2-carbaldehyde is a biochemical reagent that can be used as a biological material or organic compound for life science related research.
<b>In Vitro</b>	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.

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

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