4-Hydroxy-1H-indole-3-carbaldehyde

Cat. No.: HY-W091541

CAS No.: 81779-27-3

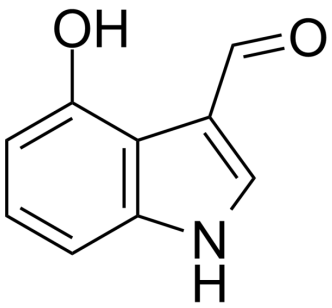
Molecular Formula: $C_9H_7NO_2$

Molecular Weight: 161.16

Target: Others

Pathway: Others

Storage: 4°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 9.09 mg/mL (56.40 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	6.2050 mL	31.0251 mL	62.0501 mL
	5 mM	1.2410 mL	6.2050 mL	12.4100 mL
	10 mM	0.6205 mL	3.1025 mL	6.2050 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: ≥ 0.91 mg/mL (5.65 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 0.91 mg/mL (5.65 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

4-Hydroxy-1H-indole-3-carbaldehyde is a plant metabolite found in Capparis spinosa L.. 4-Hydroxy-1H-indole-3-carbaldehyde can be used in the synthesis of fluorescent probe[1][2].

REFERENCES

[1]. Haifeng Zhou, et al. Anti-inflammatory effects of caper (Capparis spinosa L.) fruit aqueous extract and the isolation of main phytochemicals. J Agric Food Chem. 2010 Dec 22;58(24):12717-21.

[2]. Weishan Wang, et al. A single fluorescent probe for imaging ribonucleic acid and sulfur dioxide in living systems and its unique application in tumor and normal cells. J

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