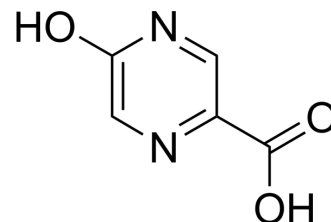


5-Hydroxypyrazine-2-Carboxylic Acid

Cat. No.:	HY-76210		
CAS No.:	34604-60-9		
Molecular Formula:	C ₅ H ₄ N ₂ O ₃		
Molecular Weight:	140.1		
Target:	Bacterial; Antibiotic		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (356.89 mM; Need ultrasonic)
 H₂O : 4 mg/mL (28.55 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	7.1378 mL	35.6888 mL	71.3776 mL
	5 mM	1.4276 mL	7.1378 mL	14.2755 mL
	10 mM	0.7138 mL	3.5689 mL	7.1378 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (17.84 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (17.84 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (17.84 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

5-Hydroxypyrazine-2-Carboxylic Acid, a metabolite of anti-tuberculosis drug pyrazinamide (PZA).

CUSTOMER VALIDATION

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- PLoS One. 2020 Nov 5;15(11):e0241600.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Huq, Fazlul; Hossain, Zahed. Molecular modelling analysis of the metabolism of pyrazinamide. *Journal of Pharmacology and Toxicology* (2006), 1(6), 505-515.
- [2]. Mehmedagic, Aida; Verite, Philippe; Menager, Sabine et al. Investigation of the effects of concomitant caffeine administration on the metabolic disposition of pyrazinamide in rats. *Biopharmaceutics & Drug Disposition* (2002), 23(5), 191-195.
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Caution: Product has not been fully validated for medical applications. For research use only.

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