N-Methyl-4-pyridone-3-carboxamide

Cat. No.: HY-113472

CAS No.: 769-49-3

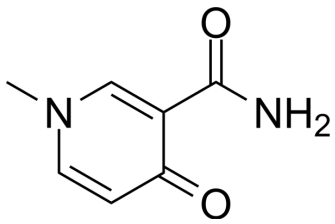
Molecular Formula: $C_7H_8N_2O_2$

Molecular Weight: 152.15

Target: Drug Metabolite

Pathway: Metabolic Enzyme/Protease

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (328.62 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	6.5725 mL	32.8623 mL	65.7246 mL
	5 mM	1.3145 mL	6.5725 mL	13.1449 mL
	10 mM	0.6572 mL	3.2862 mL	6.5725 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: ≥ 1.25 mg/mL (8.22 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.25 mg/mL (8.22 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-Methyl-4-pyridone-3-carboxamide is a metabolite of coffee pyridines[1].

REFERENCES

[1]. Bresciani L, et al. Absorption, Pharmacokinetics, and Urinary Excretion of Pyridines After Consumption of Coffee and Cocoa-Based Products Containing Coffee in a Repeated Dose, Crossover Human Intervention Study. Mol Nutr Food Res. 2020 Sep;64(18):e2000489.

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

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