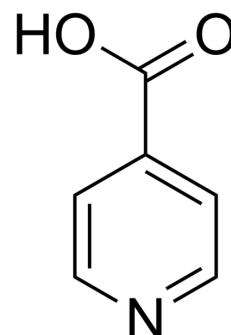


Isonicotinic acid

Cat. No.:	HY-I0736		
CAS No.:	55-22-1		
Molecular Formula:	C ₆ H ₅ NO ₂		
Molecular Weight:	123.11		
Target:	Drug Metabolite; Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (203.07 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	8.1228 mL	40.6141 mL	81.2282 mL
	5 mM	1.6246 mL	8.1228 mL	16.2456 mL
	10 mM	0.8123 mL	4.0614 mL	8.1228 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 (20.31 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (20.31 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (20.31 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Isonicotinic acid is a metabolite of Isoniazid. Isoniazid is converted to Isonicotinic acid by hydrazinolysis, with the Isoniazid to Isonicotinic acid biotransformation also to be catalyzed by cytochrome P450 (CYP) enzymes, e.g., CYP2C^[1].

REFERENCES

[1]. Seng KY, et al. Population pharmacokinetic analysis of isoniazid, acetyloniazid, and isonicotinic acid in healthy volunteers. Antimicrob Agents Chemother. 2015 Nov;59(11):6791-9.

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

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