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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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2-Amino-5-phenylpyridine

Cat. No.: HY-W002820

CAS No.: 33421-40-8

Molecular Formula: $C_{11}H_{10}N_2$

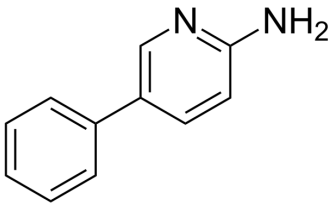
Molecular Weight: 170.21

Target: Endogenous 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 : 100 mg/mL (587.51 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	5.8751 mL	29.3755 mL	58.7510 mL
	5 mM	1.1750 mL	5.8751 mL	11.7502 mL
	10 mM	0.5875 mL	2.9375 mL	5.8751 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: 2.5 mg/mL (14.69 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (14.69 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (14.69 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2-Amino-5-phenylpyridine is a mutagenic heterocyclic aromatic amine that is formed by pyrolysis of phenylalanine in proteins. 2-Amino-5-phenylpyridine is in broiled sardines and is considered as potentially carcinogenic[1][2].

In Vitro

On the other hand, the chemical structure of 5-phenyl-2-pyridinamine (PPA) shows a great resemblance to the aminobiphenyls, another well known class of carcinogenic aromatic amines[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Dooley KL, et al. Comparative carcinogenicity of the food pyrolysis product, 2-amino-5-phenylpyridine, and the known human carcinogen, 4-aminobiphenyl, in the neonatal B6C3F1 mouse. Cancer Lett. 1988 Jul;41(1):99-103.

[2]. Stavenuiter JF, et al. Syntheses of 5-phenyl-2-pyridinamine, a possibly carcinogenic pyrolysis product of phenylalanine, and some of its putative metabolites. Carcinogenesis. 1985 Jan;6(1):13-9.

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