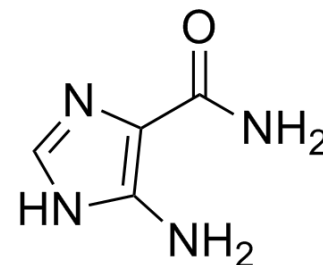


5-Amino-3H-imidazole-4-Carboxamide

Cat. No.:	HY-41461
CAS No.:	360-97-4
Molecular Formula:	C ₄ H ₆ N ₄ O
Molecular Weight:	126.12
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light



Solvent & Solubility

In Vitro

DMSO : 100 mg/mL (792.90 mM; Need ultrasonic)
 H₂O : 20 mg/mL (158.58 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	7.9290 mL	39.6448 mL	79.2896 mL
	5 mM	1.5858 mL	7.9290 mL	15.8579 mL
	10 mM	0.7929 mL	3.9645 mL	7.9290 mL

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

BIOLOGICAL ACTIVITY

Description

5-Amino-3H-imidazole-4-Carboxamide (AICA) is an important precursor for the synthesis of purines in general and of the nucleobases adenine and guanine in particular.

IC₅₀ & Target

Human Endogenous Metabolite

REFERENCES

[1]. YANG LIU. VARIABLE-TEMPERATURE 1 H-NMR AND AB INITIO STUDY OF 5-AMINO-IMIDAZOLE-4-CARBOXAMIDE (AICA): COMPETING PATHS FOR AMIDE-H SCRAMBLING. DECEMBER 2008.

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

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