

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

## Chemical Properties

CAS No. :	360-97-4
Formula:	C <sub>4</sub> H <sub>6</sub> N <sub>4</sub> O
Molecular Weight:	126.12
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	5-Amino-3H-imidazole-4-Carboxamide (AICA) is an imidazole derivative and a metabolite of the antineoplastic agents BIC and DIC. It serves as a condensation agent in the preparation of nucleosides and nucleotides, and when compounded with orotic acid, it is used to treat liver diseases.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 100 mg/mL (792.9 mM), Sonication is recommended. H <sub>2</sub> O: 20 mg/mL (158.58 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.929 mL	39.6448 mL	79.2896 mL
5 mM	1.5858 mL	7.929 mL	15.8579 mL
10 mM	0.7929 mL	3.9645 mL	7.929 mL
50 mM	0.1586 mL	0.7929 mL	1.5858 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Pastore S, et al. Rheumatol Int. 2015 Apr;35(4):619-27.

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