

3-Amino-2-piperidinone

Chemical Properties

CAS No. : 1892-22-4

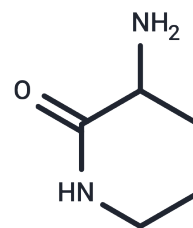
Formula: C₅H₁₀N₂O

Molecular Weight: 114.15

Store at low temperature, Keep away from direct sunlight, Store under nitrogen

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	3-Amino-2-piperidinone is a metabolite from all living organisms and can be used as a cyclic ornithine analogue.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 50 mg/mL (438.02 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (17.52 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.7604 mL	43.802 mL	87.604 mL
5 mM	1.7521 mL	8.7604 mL	17.5208 mL
10 mM	0.876 mL	4.3802 mL	8.7604 mL
50 mM	0.1752 mL	0.876 mL	1.7521 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

Fringuelli R, et al. Synthesis and evaluation of anti-apoptotic activity of L-carnitine cyclic analogues and amino acid derivatives. *Farmaco*. 2004 Apr;59(4):271-7.

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