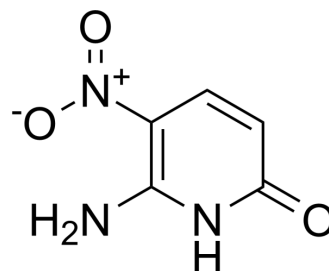


6-Amino-5-nitropyridin-2-one

Cat. No.:	HY-50071		
CAS No.:	211555-30-5		
Molecular Formula:	C ₅ H ₅ N ₃ O ₃		
Molecular Weight:	155.11		
Target:	Nucleoside Antimetabolite/Analog		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

H₂O : 1.67 mg/mL (10.77 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	6.4470 mL	32.2352 mL	64.4704 mL
	5 mM	1.2894 mL	6.4470 mL	12.8941 mL
	10 mM	0.6447 mL	3.2235 mL	6.4470 mL

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

BIOLOGICAL ACTIVITY

Description

6-Amino-5-nitropyridin-2-one is a pyridine base and used as a nucleobase of hachimoji DNA, in which it pairs with 5-aza-7-deazaguanine^[1].

REFERENCES

[1]. Hoshika S, et al. Hachimoji DNA and RNA: A genetic system with eight building blocks. Science. 2019 Feb 22;363(6429):884-887.

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

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