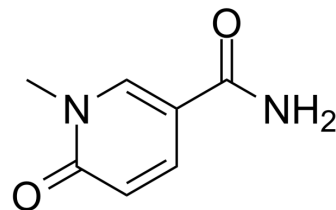


Nudifloramide

Cat. No.:	HY-113432		
CAS No.:	701-44-0		
Molecular Formula:	C ₇ H ₈ N ₂ O ₂		
Molecular Weight:	152.15		
Target:	Endogenous Metabolite; PARP		
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage; Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (410.78 mM; Need ultrasonic)
 H₂O : 33.33 mg/mL (219.06 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	6.5725 mL	32.8623 mL	65.7246 mL
	5 mM	1.3145 mL	6.5725 mL	13.1449 mL
	10 mM	0.6572 mL	3.2862 mL	6.5725 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 20 mg/mL (131.45 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (13.67 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (13.67 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (13.67 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Nudifloramide (2PY) is one of the end products of nicotinamide-adenine dinucleotide (NAD) degradation. Nudifloramide significantly inhibits poly(ADP-ribose) polymerase (PARP-1) activity in vitro^[1].

IC₅₀ & Target

Human Endogenous Metabolite

In Vitro

Nudifloramide is a more powerful inhibitor of PARP-1 than nicotinamide^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Rutkowski B, et al. N-methyl-2-pyridone-5-carboxamide: a novel uremic toxin? *Kidney Int Suppl.* 2003 May;(84):S19-21.

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

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