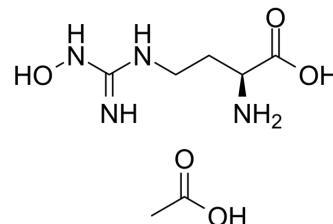


nor-NOHA monoacetate

Cat. No.:	HY-112885B
CAS No.:	2250019-93-1
Molecular Formula:	C ₇ H ₁₆ N ₄ O ₅
Molecular Weight:	236.23
Target:	Arginase
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (423.32 mM; Need ultrasonic)
H₂O : 50 mg/mL (211.66 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		4.2332 mL	21.1658 mL	42.3316 mL
	5 mM		0.8466 mL	4.2332 mL	8.4663 mL
	10 mM		0.4233 mL	2.1166 mL	4.2332 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (423.32 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (10.58 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (10.58 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (10.58 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

nor-NOHA monoacetate is a selective and reversible arginase inhibitor. nor-NOHA monoacetate induces apoptosis in ARG2-expressing cells under hypoxia. nor-NOHA monoacetate has anti-leukemic activity. nor-NOHA monoacetate can be used in the study of endothelial dysfunction, immunosuppression and metabolism^[1].

In Vitro

nor-NOHA monoacetate (0.1-1 mM, 72 h) induces apoptosis in a dose-dependent manner under hypoxia (1.5% O₂) in K562 cells^[1].

	nor-NOHA monoacetate (1 mM, 72 h) attenuates hypoxia-mediated resistance towards imatinib in K562 or KCL22 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	nor-NOHA monoacetate (100 mg/kg, i.v., once time) induces a significant reduction of infarct size in male Sprague-Dawley rats ^[2] . nor-NOHA monoacetate (100 mg/kg, i.v., once time) increases plasma citrulline and nitrite levels and decreases the ornithine plasma levels in male Sprague-Dawley rats ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Front Cell Dev Biol. 2021 Dec 23;9:741911.

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REFERENCES

[1]. Ng KP, et al. The arginase inhibitor N ω -hydroxy-nor-arginine (nor-NOHA) induces apoptosis in leukemic cells specifically under hypoxic conditions but CRISPR/Cas9 excludes arginase 2 (ARG2) as the functional target. PLoS One. 2018 Oct 11;13(10):e0205254.

[2]. Jung C, et al. Arginase inhibition mediates cardioprotection during ischaemia-reperfusion. Cardiovasc Res. 2010 Jan 1;85(1):147-54.

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

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