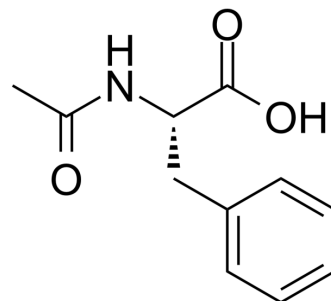


N-Acetyl-L-phenylalanine

Cat. No.:	HY-Y0068	
CAS No.:	2018-61-3	
Molecular Formula:	C ₁₁ H ₁₃ NO ₃	
Molecular Weight:	207.23	
Target:	Endogenous Metabolite	
Pathway:	Metabolic Enzyme/Protease	
Storage:	Powder	-20°C 3 years
		4°C 2 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (482.56 mM; Need ultrasonic)
 H₂O : 7.69 mg/mL (37.11 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.8256 mL	24.1278 mL	48.2556 mL
	5 mM	0.9651 mL	4.8256 mL	9.6511 mL
	10 mM	0.4826 mL	2.4128 mL	4.8256 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 7.14 mg/mL (34.45 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (12.06 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (12.06 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (12.06 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-Acetyl-L-phenylalanine (N-Acetylphenylalanine), the principal acylamino acid in Escherichia coli, is synthesized from L-phenylalanine and acetyl-CoA^[1].

IC₅₀ & Target

Human Endogenous Metabolite

CUSTOMER VALIDATION

- Laurea Magistrale in Biomedical Engineering, Politecnico di Milano. 2019 Jun.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Krishna RV, et, al. Enzymic synthesis of N-acetyl-L-phenylalanine in Escherichia coli K12. Biochem J. 1971 Oct;124(5):905-13.

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

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