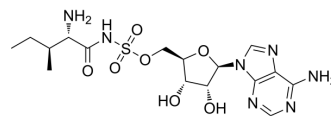


Aminoacyl tRNA synthetase-IN-1

Cat. No.:	HY-108939	
CAS No.:	219931-45-0	
Molecular Formula:	C ₁₆ H ₂₅ N ₇ O ₇ S	
Molecular Weight:	459.48	
Target:	Bacterial; Aminoacyl-tRNA Synthetase	
Pathway:	Anti-infection; Metabolic Enzyme/Protease	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 2 years
		-20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 65 mg/mL (141.46 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.1764 mL	10.8819 mL	21.7637 mL
5 mM	0.4353 mL	2.1764 mL	4.3527 mL
10 mM	0.2176 mL	1.0882 mL	2.1764 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1.08 mg/mL (2.35 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1.08 mg/mL (2.35 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1.08 mg/mL (2.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Aminoacyl tRNA synthetase-IN-1 is a bacterial aminoacyl tRNA synthetase (aaRS) inhibitor.

IC₅₀ & Target

aaRS^[1]

CUSTOMER VALIDATION

-
- Nat Commun. 2021 Mar 12;12(1):1616.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Vondenhoff GH, et al. Microcin C and albomycin analogues with aryl-tetrazole substituents as nucleobase isosters are selective inhibitors of bacterial aminoacyl tRNA synthetases but lack efficient uptake. Chembiochem. 2012 Sep 3;13(13):1959-69.

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

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