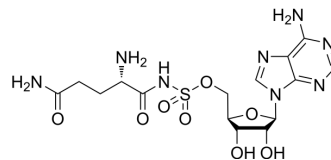


Gln-AMS

Cat. No.:	HY-112861
CAS No.:	209543-57-7
Molecular Formula:	C ₁₅ H ₂₂ N ₈ O ₈ S
Molecular Weight:	474.45
Target:	Aminoacyl-tRNA Synthetase; Bacterial
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	-20°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 : 120 mg/mL (252.92 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.1077 mL	10.5385 mL	21.0770 mL
		5 mM	0.4215 mL	2.1077 mL	4.2154 mL
		10 mM	0.2108 mL	1.0539 mL	2.1077 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 3 mg/mL (6.32 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 3 mg/mL (6.32 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3 mg/mL (6.32 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Gln-AMS is an aminoacyl-tRNA synthetases (AARS) inhibitor, which binds the A-domain within the NRPS enzymes.
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REFERENCES

- [1]. Fang P, et al. Structural basis for full-spectrum inhibition of translational functions on a tRNA synthetase. Nat Commun. 2015 Mar 31;6:6402.
- [2]. Atta-ur-Rahman, et al. Frontiers in Natural Product Chemistry.

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

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