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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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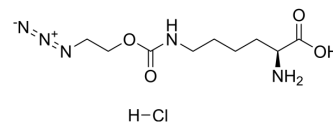
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UAA crosslinker 1 hydrochloride

Cat. No.:	HY-111434A
CAS No.:	1994331-17-7
Molecular Formula:	C ₉ H ₁₈ ClN ₅ O ₄
Molecular Weight:	295.72
Target:	Others
Pathway:	Others
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 : 125 mg/mL (422.70 mM; ultrasonic and warming and heat to 60°C) H ₂ O : 100 mg/mL (338.16 mM; Need ultrasonic)				
	Preparing Stock Solutions	Mass Solvent Concentration	1 mg	5 mg	10 mg
		1 mM	3.3816 mL	16.9079 mL	33.8158 mL
		5 mM	0.6763 mL	3.3816 mL	6.7632 mL
		10 mM	0.3382 mL	1.6908 mL	3.3816 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (7.03 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (7.03 mM); Suspended solution; Need ultrasonic				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (7.03 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	UAA crosslinker 1 hydrochloride is an amber codon used for non-canonical amino acids (ncAAs) incorporation. The ncAAs can be incorporated into proteins in vivo by making use of the promiscuous activity of certain wildtype and engineered aminoacyl-tRNA synthetases^[1]. UAA crosslinker 1 (hydrochloride) is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAC) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.
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REFERENCES

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

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