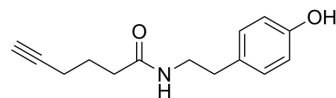


Tyramide alkyne

Cat. No.:	HY-155639
CAS No.:	2230051-33-7
Molecular Formula:	C ₁₄ H ₁₇ NO ₂
Molecular Weight:	231.29
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (432.36 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.3236 mL	21.6179 mL	43.2358 mL
		5 mM	0.8647 mL	4.3236 mL	8.6472 mL
		10 mM	0.4324 mL	2.1618 mL	4.3236 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: 2.5 mg/mL (10.81 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (10.81 mM); Clear solution; Need ultrasonic				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (10.81 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Tyramide alkyne is an alternative labeling substrate that can be coupled to detection or enrichment moieties via a Copper-catalyzed Azide/Alkyne Cycloaddition (CuAAC) “click” reaction. Tyramide alkyne can be used for ascorbate peroxidase 2 (APEX2) labeling ^[1] .
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REFERENCES

[1]. Ganapathy US, et al. Compartment-Specific Labeling of Bacterial Periplasmic Proteins by Peroxidase-Mediated Biotinylation. ACS Infect Dis. 2018 Jun 8;4(6):918-925.

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

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