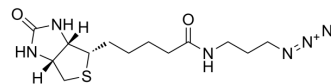


Biotin-azide

Cat. No.:	HY-129832		
CAS No.:	908007-17-0		
Molecular Formula:	C ₁₃ H ₂₂ N ₆ O ₂ S		
Molecular Weight:	326.42		
Target:	Biochemical Assay Reagents		
Pathway:	Others		
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 (306.35 mM; Need ultrasonic)
 H₂O : 4 mg/mL (12.25 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.0635 mL	15.3177 mL	30.6354 mL
	5 mM	0.6127 mL	3.0635 mL	6.1271 mL
	10 mM	0.3064 mL	1.5318 mL	3.0635 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: ≥ 2.08 mg/mL (6.37 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.08 mg/mL (6.37 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.08 mg/mL (6.37 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Biotin-azide (N-(3-Azidopropyl)biotinamide) is a form of biotin with a terminal azide group. Biotin-azide can be used to prepare various biotinylated conjugates via Click Chemistry^{[1][2]}. Biotin-azide 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.

In Vitro

Click chemical functionalization postcrosslinking with a Biotin-azide probe enabled the isolation of transcriptional protein complexes from yeast cells^[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Aging Cell. 2022 Nov 27;e13745.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Joiner CM, et al. A Bifunctional Amino Acid Enables Both Covalent Chemical Capture and Isolation of in Vivo Protein-Protein Interactions. *Chembiochem*. 2017 Jan 17;18(2):181-184.

[2]. Bruckman MA, et al. Tobacco mosaic virus-based protein nanoparticles and nanorods for chemotherapy delivery targeting breast cancer. *J Control Release*. 2016;231:103-113.

[3]. Kim HY, et al. An azido-biotin reagent for use in the isolation of protein adducts of lipid-derived electrophiles by streptavidin catch and photorelease. *Mol Cell Proteomics*. 2009;8(9):2080-2089.

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

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