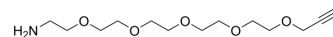


## Propargyl-PEG5-amine

|                    |  |
|--------------------|--|
| Cat. No.:          | HY-126976  |
| CAS No.:           | 1589522-46-2   |
| Molecular Formula: | C <sub>13</sub> H <sub>25</sub> NO <sub>5</sub>  |
| Molecular Weight:  | 275.34   |
| Target:            | ADC Linker; PROTAC Linkers   |
| Pathway:           | Antibody-drug Conjugate/ADC Related; PROTAC  |
| Storage:           | -20°C, protect from light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



### SOLVENT & SOLUBILITY

|   |  |                          |           |            |            |
|---|--|--------------------------|-----------|------------|------------|
| In Vitro  | DMSO : 100 mg/mL (363.19 mM; Need ultrasonic)  |                          |           |            |            |
|   |  | Solvent<br>Concentration | Mass      |            |            |
|   | Preparing<br>Stock Solutions   |                          | 1 mg      | 5 mg       | 10 mg      |
|   |  | 1 mM                     | 3.6319 mL | 18.1594 mL | 36.3187 mL |
|   |  | 5 mM                     | 0.7264 mL | 3.6319 mL  | 7.2637 mL  |
|   | 10 mM  | 0.3632 mL                | 1.8159 mL | 3.6319 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<br>Solubility: ≥ 2.5 mg/mL (9.08 mM); Clear solution |                          |           |            |            |
|   | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: ≥ 2.5 mg/mL (9.08 mM); Clear solution            |                          |           |            |            |
|   | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.5 mg/mL (9.08 mM); Clear solution                            |                          |           |            |            |

### BIOLOGICAL ACTIVITY

|                           |  |      |
|---------------------------|--|------|
| Description               | Propargyl-PEG5-amine is a non-cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs). Propargyl-PEG5-amine is a PEG-based PROTAC linker can be used in the synthesis of PROTACs <sup>[1]</sup> . Propargyl-PEG5-amine is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups. |      |
| IC <sub>50</sub> & Target | Non-cleavable Linker   | PEGs |
| In Vitro                  | ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker. PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein.  |      |

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PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Robert Zamboni, et al. Raf-degrading conjugate compounds. WO2018200981A1.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA