

Product Data Sheet

Product Name: Azido-PEG2-C2-amine

Cat. No.: GC60067

Chemical Properties

Cas. No. 166388-57-4

SMILES [N-]=[N+]=NCCOCCOCCN

Formula $C_6H_{14}N_4O_2$

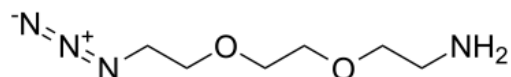
M.Wt 174.2

Solubility Storage -20°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Azido-PEG2-C2-amine (N3-PEG2-CH₂CH₂NH₂) is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs[1]. Azido-PEG2-C2-amine is also a non-cleavable 2 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs)[2].

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

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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. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins[1]. ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker[2].

[1]. Su S, et al. Potent and Preferential Degradation of CDK6 via Proteolysis Targeting Chimera Degradation. J Med Chem. 2019 Aug 22;62(16):7575-7582. [2]. Tominari, Yusuk, et al. Heterocyclic compound. WO2020027225A1.

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