
Product Data Sheet

Product Name: Azido-PEG5-acid

Cat. No.: GC67454

Chemical Properties

Cas. No. 1425973-16-5

Formula $C_{13}H_{25}N_3O_7$ M.Wt 335.35

Solubility Storage Store at -20°C

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-PEG5-acid is a PEG-based PROTAC linker can be used in the synthesis of PROTACs, such as the conjugate CPT-APO (CPT: Camptothecin). Azido-PEG5-acid is a non-cleavable 5 unit PEG **ADC** linker used in the synthesis of antibody-drug conjugates (ADCs)^{[1][2]}.

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. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins^[2].

[1]. Zolotarskaya OY, et al. Click synthesis of a polyamidoamine dendrimer-based camptothecin prodrug. RSC Adv. 2015;5(72):58600-58608. Epub 2015 Jun 29.

[2]. An S, et al. Small-molecule PROTACs: An emerging and promising approach for the development of targeted therapy drugs. EBioMedicine. 2018 Oct;36:553-562.

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

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