

Product Data Sheet

Product Name: Azido-PEG6-NHS ester

Cat. No.: GC61869

Chemical Properties

Cas. No. 2055014-64-5

SMILES O=C(ON1C(CCC1=O)=O)CCOCCOCCOCCOCCOCCOCCOCCN=[N+]=[N-]

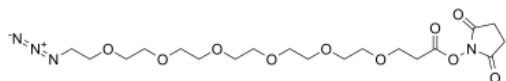
Formula $C_{19}H_{32}N_4O_{10}$ M.Wt 476.48

Solubility DMSO : 100 mg/mL (209.87 mM) 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-PEG6-NHS ester is a cleavable 6 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs)[1]. Azido-PEG6-NHS ester is also a PEG- and Alkyl/ether based PROTAC linker that can be used in the synthesis of PROTACs[2].

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

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ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker[1]. 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].

References:

- [1]. Thiele NA, et al. An Eighteen-Membered Macrocyclic Ligand for Actinium-225 Targeted Alpha Therapy. *Angew Chem Int Ed Engl*. 2017 Nov 13;56(46):14712-14717.
- [2]. John W. Babich, et al. Trifunctional constructs with tunable pharmacokinetics useful in imaging and anti-tumor therapies. WO2018187631A1.

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