
Product Data Sheet

Product Name: Aminoxy-PEG3-azide

Cat. No.: GC66609

Chemical Properties

Cas. No. 1306615-51-9

Formula $C_8H_{18}N_4O_4$ M.Wt 234.25

Solubility Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

Aminoxy-PEG3-azide is a non-cleavable 3 unit PEG **ADC linker** used in the synthesis of antibody-drug conjugates (ADCs)^[1]. Aminoxy-C2-PEG3-azide is also a PEG-based **PROTAC linker** that can be used in the synthesis of PROTACs^[2].

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].

[1]. Chanhyuk KIM, et al. Optimized chimeric receptor t cell switches and uses thereof. WO2016168766A1.

[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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