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## Product Data Sheet

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Product Name: DBCO-NHCO-PEG4-amine

Cat. No.: GC67172

### Chemical Properties

Cas. No. 1255942-08-5

Formula  $C_{29}H_{37}N_3O_6$  M.Wt 523.62

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

DBCO-NHCO-PEG4-amine is a PEG-based **PROTAC linker** can be used in the synthesis of PROTACs. DBCO-NHCO-PEG4-amine is a cleavable **ADC linker** used to conjugate MMAE and antibody (e.g., DBCO-VCpAB-MMAE and DBCO-TRX-MMAE with  $EC_{50}$ s of 280 nM and 22 nM in SKBR3 cells, respectively)<sup>[1]</sup>.

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.

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

[1]. Spangler B, et al. Toward a Ferrous Iron-Cleavable Linker for Antibody-Drug Conjugates. Mol Pharm. 2018 May 7;15(5):2054-2059. .

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

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