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**Product Data Sheet**

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Product Name: Tr-PEG2-OH

Cat. No.: GC66952

**Chemical Properties**

Cas. No. 105589-77-3

Formula  $C_{23}H_{24}O_3$  M.Wt 348.43

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**

Tr-PEG2-OH is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs<sup>[1]</sup>. Tr-PEG2-OH is also a non-cleavable 2 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs)<sup>[2]</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<sup>[1]</sup>. ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker<sup>[2]</sup>.

[1]. 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.

[2]. Beck A, et al. Strategies and challenges for the next generation of antibody-drug conjugates. *Nat Rev Drug Discov*. 2017 May;16(5):315-337.

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

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