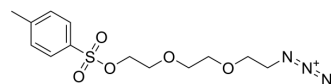


Azide-PEG3-Tos

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-140004 | | |
| CAS No.: | 178685-33-1 | | |
| Molecular Formula: | C ₁₃ H ₁₉ N ₃ O ₅ S | | |
| Molecular Weight: | 329.37 | | |
| Target: | PROTAC Linkers; ADC Linker | | |
| Pathway: | PROTAC; Antibody-drug Conjugate/ADC Related | | |
| Storage: | Pure form | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



BIOLOGICAL ACTIVITY

| | | | |
|-------------------------------------|--|----------------------|--|
| Description | Azide-PEG3-Tos is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs ^[1] . Azide-PEG3-Tos is also a non-cleavable 3 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs) ^[2] . Azide-PEG3-Tos is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAC) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups. | | |
| IC₅₀ & Target | PEGs | Non-cleavable Linker | |
| In Vitro | 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 ^[1] . ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | |

REFERENCES

[1]. Borchmann DE, et al. GRGDS-Functionalized Poly(lactide)-graft-poly(ethylene glycol) Copolymers: Combining Thiol-Ene Chemistry with Staudinger Ligation. *Macromolecules*. 2013 Jun 11;46(11):4426-4431.

[2]. Park, Tae Kyo, et al. Compound bearing beta-galactoside-introduced self-immolative linker. WO2018124758A2.

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

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