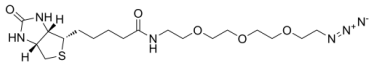
Data Sheet

Product Name:	Biotin-PEG3-azide
Cat. No.:	CS-0105250
CAS No.:	875770-34-6
Molecular Formula:	$C_{18}H_{32}N_6O_5S$
Molecular Weight:	444.55
Target:	PROTAC Linkers
Pathway:	PROTAC
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

Biotin-PEG3-azide is a PEG-based **PROTAC linker** can be used in the synthesis of PROTACs. Biotin-PEG3-azide is a click chemistry reagent, itcontains 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. ***In Vitro:*** Biotin-C2-PEG3-azide is a biotin with the azide tag, it can be conjugated to antiviral inhibitors, for example, RYL-634, which shows excellent broad-spectrum inhibition activity against various pathogenic viruses, including hepatitis C virus, dengue virus, Zika virus, chikungunya virus, enterovirus[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.

References:

[1]. Yang Y, et al. Discovery, Optimization, and Target Identification of Novel Potent Broad-Spectrum Antiviral Inhibitors.J Med Chem. 2019 Apr 25;62(8):4056-4073.

CAIndexNames:

1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[2-[2-[2-(2-azidoethoxy)ethoxy]ethoxy]ethyl]hexahydro-2-oxo-, (3aS,4S,6aR)-

SMILES:

O=C(NCCOCCOCCOCCN=[N+]=[N-])CCCC[C@@H]1SC[C@]([C@]1([H])N2)([H])NC2=O

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

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