

Product Data Sheet

Inhibitors

Screening Libraries

Azido-PEG3-phosphonic acid ethyl ester

 Cat. No.:
 HY-140813

 CAS No.:
 1337527-24-8

 Molecular Formula:
 $C_{12}H_{26}N_3O_6P$

Molecular Weight: 339.33

Target: PROTAC Linkers

Pathway: PROTAC

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

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BIOLOGICAL ACTIVITY

Description	Azido-PEG3-phosphonic acid ethyl ester is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs ^[1] . Azido-PEG3-phosphonic acid ethyl ester is a click chemistry reagent, it contains an Azide group and can undergo coppercatalyzed 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.
IC ₅₀ & Target	PEGs
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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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

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

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