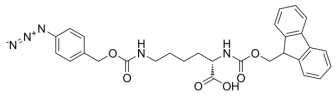
Fmoc-L-Lys(4-N3-Z)-OH

Cat. No.:	HY-151679
CAS No.:	1446511-14-3
Molecular Formula:	$C_{29}H_{29}N_5O_6$
Molecular Weight:	543.57
Target:	ADC Linker
Pathway:	Antibody-drug Conjugate/ADC Related
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Fmoc-L-Lys(4-N3-Z)-OH is a click chemistry reagent containing an azide group. Fmoc-L-Lys(4-N3-Z)-OH acts as Lysine building-block for SPPS containing an Azide moiety as a bioorthogonal ligation handle, an infrared probe and a photo-affinity reagent. It can be decaged by trans-cyclooctenols via a strain-promoted 1,3-dipolar cycloaddition[1][2]. Fmoc-L-Lys(4-N3-Z)-OH 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.

REFERENCES

[1]. Ge Y, et al. A genetically encoded multifunctional unnatural amino acid for versatile protein manipulations in living cells. Chem Sci. 2016 Dec 1;7(12):7055-7060.

[2]. Wesalo JS, et al. Phosphine-Activated Lysine Analogues for Fast Chemical Control of Protein Subcellular Localization and Protein SUMOylation. Chembiochem. 2020 Jan 15;21(1-2):141-148.

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

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