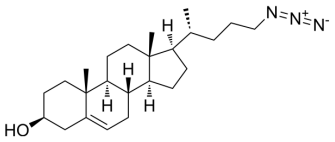
Chol-N3

Cat. No.:	HY-152901
CAS No.:	2106868-12-4
Molecular Formula:	$C_{24}H_{39}N_3O$
Molecular Weight:	385.59
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Chol-N3 is a bioorthogonal-based chol probe. Chol-N3 can combine with super-resolution fluorescence microscopy (SRM), providing direct visualization of nanoscale lipid heterogeneity in the cell surface of resting living cells[1]. Chol-N3 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.
In Vitro	Chol-N3 (25 μM; 16 h; living SH-SY5Y cells) distribution in living cells clearly shows the presence of nanoscopic domains in the PM[1]. Chol-N3 (15 μM; 16 h; living SH-SY5Y cells) has nanoscale spatiotemporal diffusion dynamics in SH-SY5Y cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lorizate M, et, al. Super-Resolution Microscopy Using a Bioorthogonal-Based Cholesterol Probe Provides Unprecedented Capabilities for Imaging Nanoscale Lipid Heterogeneity in Living Cells. Small Methods. 2021 Sep;5(9):e2100430.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA