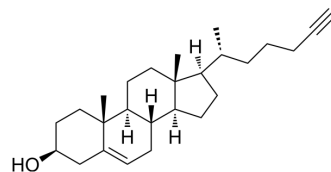


Alkyne Cholesterol

Cat. No.:	HY-151705
CAS No.:	1631985-09-5
Molecular Formula:	C ₂₆ H ₄₀ O
Molecular Weight:	368.6
Target:	Liposome
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 4 mg/mL (10.85 mM; Need ultrasonic and warming)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.7130 mL	13.5648 mL	27.1297 mL	
5 mM	0.5426 mL	2.7130 mL	5.4259 mL	
10 mM	0.2713 mL	1.3565 mL	2.7130 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Alkyne Cholesterol, a modified lipid, is a click chemistry reagent containing an alkyne group. The terminal alkyne group can be used in a highly specific linking reaction with azide-containing reagents in the presence of a copper (Cu)-containing catalyst. Alkyne Cholesterol can be used for tracking cellular cholesterol metabolism and localization^{[1][2][3]}.

REFERENCES

- [1]. Katherine Windsor, et al. Probing lipid-protein adduction with alkynyl surrogates: application to Smith-Lemli-Opitz syndrome. *J Lipid Res.* 2013 Oct;54(10):2842-50.
- [2]. Katherine Windsor, et al. Assay of protein and peptide adducts of cholesterol ozonolysis products by hydrophobic and click enrichment methods. *Chem Res Toxicol.* 2014 Oct 20;27(10):1757-68.
- [3]. Alkyne Cholesterol.

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

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