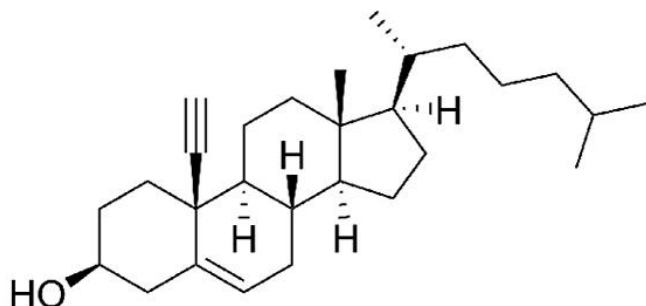




E-CHOLESTEROL ALKYNE

SKU: CCT-1411



DESCRIPTION

This reagent is a modified lipid containing an omega-terminal alkyne. The terminal alkyne group can be used in a highly specific linking reaction with azide-containing reagents, known as 'click chemistry', in the presence of a copper (Cu)-containing catalyst.

E-Cholesterol Alkyne (19-ethynylcholesterol) represents a versatile, sensitive, and easy-to-use tool for tracking cellular cholesterol metabolism and localization as it allows for manifold detection methods including mass spectrometry, and fluorescence microscopy.

E-cholesterol Alkyne (19-ethynylcholesterol) is accepted by cellular enzymes from different biological species (Brevibacterium, yeast, rat, human) and these enzymes include cholesterol oxidases, hydroxylases, and acyl transferases that generate the expected metabolites in in vitro and in vivo assays. Using fluorescence microscopy, researchers can study the distribution of cholesterol at subcellular resolution, detecting the lipid in the Golgi and at the plasma membrane, but also in the endoplasmic reticulum and mitochondria.

In summary, alkyne cholesterol represents a versatile, sensitive, and easy-to-use tool for tracking cellular cholesterol metabolism and localization as it allows for manifold detection methods including mass spectrometry, and fluorescence microscopy.

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.



SPECIFICATIONS

CAS Number	N/A
Molecular Weight	396.66
Appearance	White crystalline
Chemical Formula	C ₂₈ H ₄₄ O
Purity	>95% (H NMR)
Unit Size	1 mg, 5 mg, 25 mg
Solubility	DMSO, DMF
Storage Instructions	-20°C.
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

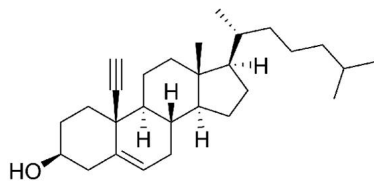
SELECTED REFERENCES

1. Jao C.Y., *et al.* (2015). Bioorthogonal Probes for Imaging Sterols in Cells. *Chembiochem.*, **16**, 611-7. [[PubMed](#)]

DOCUMENTS

- [Safety Data Sheet](#)
- [Datasheet](#)

GALLERY IMAGES



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