

Product Data Sheet

Product Name: 19-alkyne Cholesterol

Cat. No.: GC49651

Chemical Properties

Cas. No. 2058319-71-2

SMILES O[C@H](C1)CC[C@@]2(C#C)C1=CC[C@]3([H])[C@]2([H])CC[C@@]4(C)[C@@]3([H])CC[C@]4([H])[C@H](C)CCCC(C)C

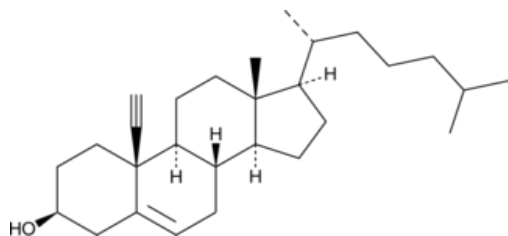
Formula C₂₈H₄₄O M.Wt 396.7

Solubility DMF: 2 mg/ml, DMSO: 0.1 mg/ml, Ethanol: 20 mg/ml, Ethanol: PBS (pH 7.2) (1:2): 0.3 mg/ml
Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

19-alkyne Cholesterol is an alkyne derivative of cholesterol.¹ It has been used to track cholesterol localization and subcellular distribution in NIH3T3 cells and to study the role of cholesterol in hedgehog (Hh) signal transduction in Shh-LIGHT2 cells using click chemistry and various reporter azides.

1. Jao, C.Y., Nedelcu, D., Lopez, L.V., et al. Bioorthogonal probes for imaging sterols in cells. *ChemBiochem*. 16(4)611-617 (2015)

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

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