

Store at
-20°C
#68998**U-18666A**

5 mg


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For Research Use Only. Not for Use in Diagnostic Procedures.**Background**

U-18666A is a cell permeable drug that inhibits cholesterol transport. This small molecule inhibits low density lipoprotein (LDL)-derived cholesterol transport, blocking cholesterol esterification, and suppressing LDL receptor activities (1). Studies have shown that impaired cholesterol trafficking is associated with neurological diseases such as Alzheimer's disease (AD), Niemann-Pick disease type C (NPC), and atherosclerosis (2,3). The mechanisms of neurodegeneration for these diseases are mostly unknown so studies using U-18666A to simulate intracellular cholesterol accumulation may provide greater insight into these pathologies (2). Cholesterol levels play a role in the body's response to viral infection and the ability of a virus to enter and replicate within a host cell, making U-18666A an important compound when studying different viral diseases (4).

Molecular FormulaC₂₅H₄₁NO₂ • HCl**Molecular Weight**

424.1 g/mol

Purity

>98%

CAS

3039-71-2

Solubility

Soluble in water at 20 mg/ml.

Storage

Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 1 month to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use

U-18666A is supplied as a lyophilized powder. For a 10 mM stock, reconstitute 5 mg of powder in 1.17 ml of water. Working concentrations and length of treatment can vary depending on the desired effect.

Background References

1. Liscum, L. and Faust, J.R. (1989) *J Biol Chem* 264, 11796-806.
2. Koh, C.H. and Cheung, N.S. (2006) *Cell Signal* 18, 1844-53.
3. Tabas, I. (2004) *Cell Death Differ* 11 Suppl 1, S12-6.
4. Poh, M.K. et al. (2012) *Antiviral Res* 93, 191-8.

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