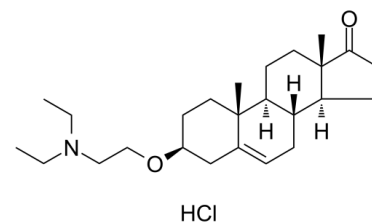


Data Sheet

Product Name:	U18666A
Cat. No.:	CS-0028465
CAS No.:	3039-71-2
Molecular Formula:	C ₂₅ H ₄₂ ClNO ₂
Molecular Weight:	424.06
Target:	Others
Pathway:	Others
Solubility:	DMSO : 50 mg/mL (117.91 mM; Need ultrasonic); H ₂ O : 10 mg/mL (23.58 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

U18666A, a cell permeable drug, is a cholesterol synthesis and transport inhibitor. IC₅₀ & Target: Cholesterol^{[1][2]}. **In Vitro:** U18666A, the antiviral effect is found to result from two events: retarded viral trafficking in the cholesterol-loaded late endosomes/lysosomes and suppresses de novo sterol biosynthesis in treated infected cells. It is also observed an additive antiviral effect of U18666A with C75, a fatty acid synthase inhibitor, suggesting dengue virus relies on both the host cholesterol and fatty acid biosynthesis for successful replication^{[1][2]}.

References:

- [1]. Poh MK, et al. U18666A, an intra-cellular cholesterol transport inhibitor, inhibits dengue virus entry and replication. Antiviral Res. 2012 Jan;93(1):191-8.
- [2]. Cenedella RJ, et al. Cholesterol synthesis inhibitor U18666A and the role of sterol metabolism and trafficking in numerous pathophysiological processes. Lipids. 2009 Jun;44(6):477-87.

CAIndexNames:

Androst-5-en-17-one, 3-[2-(diethylamino)ethoxy]-, hydrochloride (1:1), (3β)-

SMILES:

CCN(CC)CCOC[C@]12CC[C@@H]3[C@H]([C@@H]1CC=C4[C@@]3(CC[C@@H](C4)O)CC)CC2

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

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