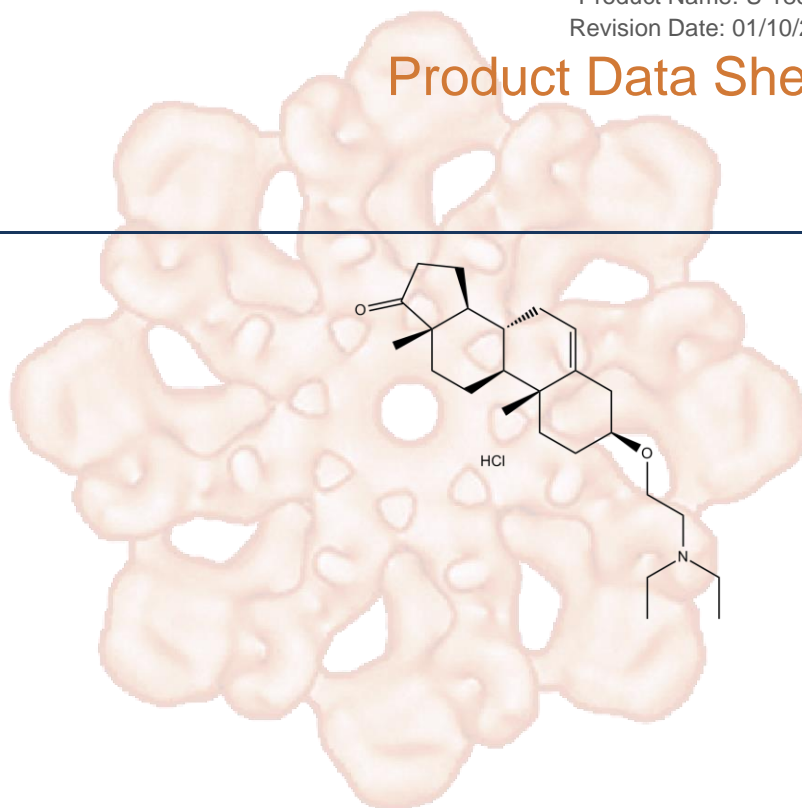


Product Data Sheet

U 18666A

Cat. No.:	B6812
CAS No.:	3039-71-2
Formula:	C ₂₅ H ₄₁ NO ₂ ·HCl
M.Wt:	424.07
Synonyms:	
Target:	Stem Cell
Pathway:	Hedgehog
Storage:	Store at -20°C



Solvent & Solubility

 Soluble in H₂O

In Vitro

Preparing Stock Solutions	Solvent Concentration	Mass	1mg	5mg	10mg
	1 mM		2.3581 mL	11.7905 mL	23.5810 mL
	5 mM		0.4716 mL	2.3581 mL	4.7162 mL
	10 mM		0.2358 mL	1.1791 mL	2.3581 mL

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

Biological Activity

Shortsummary

inhibitor of cholesterol transport and synthesis

 IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	Primary cortical neurons
Preparation method:	Soluble to 100 mM in sterile water. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	0.1–2.5 µg/ml, 37°C, 72 h
Applications:	U18666A (2.5 µg/ml, 72 h) induced cytotoxicity in primary cortical neurons.

U18666A resulted in significant loss of more than 50% of cell survival and major morphological changes characterized by cell shrinkage and membrane blebbing in cortical neuron. U18666A (0.1–2.5 µg/ml, 72 h) induced cell injury and apoptosis in primary cortical neurons.

Animal experiment

Animal models:	Sprague-Dawley rats
Dosage form:	Subcutaneous injection, 10 mg/kg, every fourth or seventh day
Applications:	Weekly injection of U 18666A (10 mg/kg, s.c.) into neonatal rats for 4 consecutive weeks caused a reduction in the seizure threshold of male rats to the convulsant flurothyl.
Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

In Vivo

Product Citations

See more customer validations on www.apexbt.com.

References

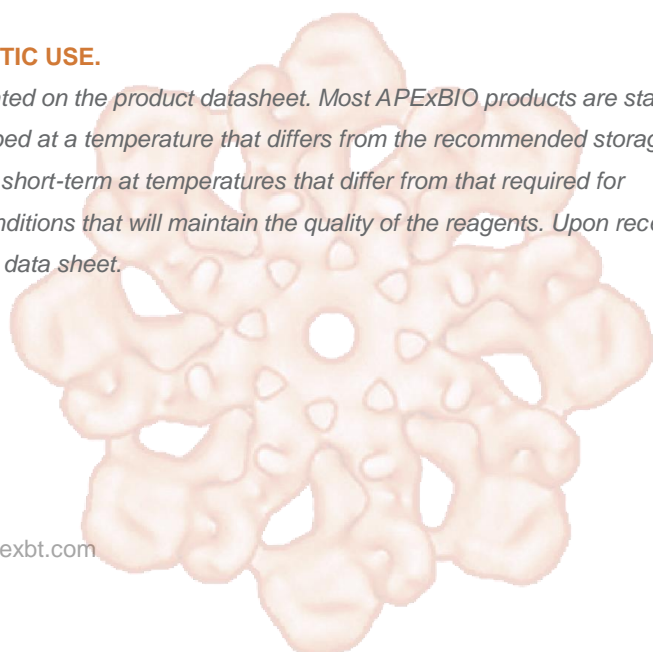
- [1]. Cheung N S, Koh C H V, Bay B H, et al. Chronic exposure to U18666A induces apoptosis in cultured murine cortical neurons[J]. Biochemical and biophysical research communications, 2004, 315(2): 408-417.
- [2]. Bierkamper G G, Cenedella R J. Induction of chronic epileptiform activity in the rat by an inhibitor of cholesterol synthesis, U18666A[J]. Brain research, 1978, 150(2): 343-351.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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