

Alirocumab

Chemical Properties

CAS No.:	1245916-14-6
Formula:	N/A
Molecular Weight:	N/A
Appearance:	N/A
Storage:	store at -20°C

Biological Description

Description	Alirocumab is a human monoclonal antibody that inhibits PCSK9. It is produced by recombinant DNA technology in Chinese hamster ovary cell suspension culture.
Targets(IC ₅₀)	PCSK9: None
In vitro	Huh-7 cells cultured in 6-well plates were incubated with recombinant PCSK9 proteins (wild-type PCSK9 or D374Y mutant) and/or alirocumab or isotype control monoclonal antibody, as indicated, for 6 hours at 37°C.[1] For assessment of surface protein levels, Huh-7 cells were incubated with increasing concentrations of recombinant PCSK9 proteins (5–500 nM wild-type PCSK9 or 0.2–20 nM D374Y mutant) and 300 nM alirocumab or isotype control monoclonal antibody, as indicated, for 6 hours at 37°C.[1]
In vivo	Blood samples were obtained from Pcsk9 ^{hum/hum} Ldlr +/- mice 7 days prior to antibody injection to determine LDL-C levels. On Day 0, mice were separated into groups based on LDL-C level and alirocumab or control monoclonal antibody was administered at 10 mg/kg by subcutaneous injection. Serum and livers were collected on Day 4 after antibody administration. Serum LDL-C concentration was assessed using an automated serum chemistry analyzer ADVIA11800, and CD81 and LDLR levels in livers were assessed by Western blot analysis, using GAPDH as a loading control.[1]

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Ramanathan A, et al. Alirocumab, a Therapeutic Human Antibody to PCSK9, Does Not Affect CD81 Levels or Hepatitis C Virus Entry and Replication into Hepatocytes. PLoS One. 2016 Apr 26;11(4):e0154498.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481