

Reslizumab

Chemical Properties

CAS No. : 241473-69-8

Formula:

Molecular Weight: 143.8 kDa

Storage: Store at low temperature
-20°C for 1 year

Actual storage temperature shall be subject to the COA.

Reslizumab

Biological Description

Description	Reslizumab (Sch 55700) is a humanized immunoglobulin G (IgG)4 κ monoclonal antibody that binds to human interleukin 5, thereby decreasing eosinophil production and survival. Reslizumab improves lung function, induces a decrease in eosinophil production and maturation, and may be used in the study of asthma.
Targets(IC50)	IL Receptor, Interleukin
In vitro	Reslizumab binds with high affinity to human IL-5 in Biacore surface plasmon resonance, $KD = 109$ pM and in kinetic exclusion assays, $KD = 4.3$ pM. [1] Reslizumab displays high affinity binding to hIL-5 ($Kd = 20$ pmol/l), inhibits the binding of hIL-5 to Ba/F3 cells ($IC50 = 0.5$ nmol/l) and blocks IL-5 mediated proliferation of human erythroleukemic TF-1 cells. [2]
In vivo	Intraperitoneal or intramuscular injection of 0-10 mg/kg Reslizumab inhibited pulmonary eosinophilia in allergic mice in a dose-dependent manner. [2] Intravenous injection of 30 mg/kg Reslizumab inhibited allergic bronchoconstriction but not histamine-induced bronchoconstriction in allergic guinea pigs. Intravenous injection of 0.1-1 mg/kg Reslizumab blocked pulmonary eosinophilia and neutrophilia induced by tracheal injection of hIL-5 in guinea pigs. [2] Intravenous 0.3 mg/kg Reslizumab blocked antigen-challenge-induced pulmonary eosinophilia for up to 6 months in allergic rhesus monkeys. [2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.007 mL	0.0348 mL	0.0695 mL
5 mM	0.0014 mL	0.007 mL	0.0139 mL
10 mM	0.0007 mL	0.0035 mL	0.007 mL
50 mM	0.0001 mL	0.0007 mL	0.0014 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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