

Benralizumab

Chemical Properties

CAS No. : 1044511-01-4

Formula:

Molecular Weight: 146.06 kDa

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

Actual storage temperature shall be subject to the COA.

Benralizumab

Biological Description

Description	Benralizumab (MEDI-563) is a monoclonal antibody targeting the interleukin-5 receptor alpha (IL-5R α). It enhances antibody-dependent cell-mediated cytotoxicity, leading to a rapid depletion of eosinophils. Benralizumab is used for severe eosinophilic asthma and can be employed to prevent exacerbations of chronic obstructive pulmonary disease.
Targets(IC50)	Apoptosis,IL Receptor,Interleukin
In vitro	The dissociation constants of the extracellular domain of recombinant human and cynomolgus IL-11R α by Benralizumab (MEDI-563) were 42 pM and 5 pM, respectively [2]. When inhibiting IL-5-induced proliferation of CTLL-48 cells transfected with recombinant human IL-2R $\alpha\beta$ (5 pM-1 nM, 100 hours), the IC50 of benalizumab was 0.3 nM [2]. Benalizumab specifically binds to constructs containing human IL-5R α D1 and plays a role in mediating ADCC (antibody-dependent cell-mediated cytotoxicity) of human eosinophils and basophils, with EC50 values of 0.9 pM and 0.5 pM, respectively. In addition, it also promotes eosinophil apoptosis [2].
In vivo	Benalizumab (MEDI-563) (0-30 mg / kg ; intravenous injection ; once every 3 weeks for 12 weeks) can reduce peripheral blood and bone marrow eosinophils [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0068 mL	0.0342 mL	0.0685 mL
5 mM	0.0014 mL	0.0068 mL	0.0137 mL
10 mM	0.0007 mL	0.0034 mL	0.0068 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481