

Ixekizumab

Chemical Properties

CAS No. : 1143503-69-8

Formula:

Molecular Weight: 146.2 kDa

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

Actual storage temperature shall be subject to the COA.

Ixekizumab

Biological Description

Description	Ixekizumab (LY2439821) is a humanized IgG4 monoclonal antibody that selectively binds and neutralizes interleukin IL-17A with a Kd value of <3 pM. It blocks the binding of IL-17A to IL-17RA but not to other IL-17 family members. Ixekizumab is used for the treatment of moderate to severe plaque psoriasis, psoriasis, arthritis, and psoriasis.
Targets(IC50)	IL Receptor, Interleukin
In vitro	Ixekizumab (0.1-10000 pM) dose-dependently inhibits the secretion of growth-regulated oncogene (GRO) α induced by human IL-17A or human IL-17A/F heterodimers from HT-29 cells. Similarly, Ixekizumab demonstrates dose-dependent inhibition of GRO α secretion from HT-29 cells induced by cynomolgus monkey IL-17A.[1] The equilibrium KD values of Ixekizumab for IL-17A in humans and cynomolgus monkeys were 1.8 pM and 0.8 pM, respectively. Ixekizumab exhibited binding to rabbit IL-17A as well, although with a lower affinity and heterogeneous binding (with KD values of 1.3 nM and 14 nM, respectively). Notably, Ixekizumab did not demonstrate any binding to IL-17A in either mice or rats.[1]
In vivo	Ixekizumab (0.001-1 mg/kg; i.v.; C57BL/6 mice) exhibits a dose-dependent reduction in the secretion of keratinocyte chemoattractant (KC) induced by human IL-17A in the plasma of C57BL/6 mice. In male cynomolgus monkeys, intravenous (IV) administration of 1 mg/kg results in a mean elimination half-life of 6.5 days. Subcutaneous (SC) administration of 1 mg/kg yields a maximum plasma concentration of approximately 11.1 μ g/mL around 72 hours post-dose, with a mean elimination half-life of about 10.3 days.[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0068 mL	0.0342 mL	0.0684 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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