

Tocilizumab

Chemical Properties

CAS No. : 375823-41-9

Formula:

Molecular Weight: 145.2 kDa

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

Actual storage temperature shall be subject to the COA.

Tocilizumab

Biological Description

Description	Tocilizumab (Anti-Human IL6R) is a neutralizing antibody against human interleukin-6 receptor (IL-6R) that blocks the binding of IL-6 to IL-6R, thereby inhibiting both classical and trans signaling. It can be used to study rheumatoid arthritis and has been suggested as a possible drug for the treatment of severe COVID-19.
Targets(IC50)	Interleukin
In vitro	METHODS: Tocilizumab (Anti-Human IL6R) (0.001-10,000 µg/ml) was used to culture Ba/F3-gp130-hIL-6R or Ba/F3-gp130-mIL-6R cells for 2 days, and cell proliferation was observed. RESULTS Tocilizumab (Anti-Human IL6R) could inhibit cell proliferation, with an IC50 value of 13.5 ng/mL. [1]
In vivo	METHODS: HARA-B cells were inoculated into the left ventricle of nude mouse hearts. Three weeks after inoculation, Tocilizumab (Anti-Human IL6R) was intravenously injected weekly for the next three weeks (1.0 mg/100 µL, once every two weeks for three weeks). RESULTS The volume of each metastatic lesion in the brains of mice injected with Tocilizumab (Anti-Human IL6R) was significantly smaller. [2]
Cell Research	Objective: To validate that IL-6 signaling is essential for TAM (tumor-associated macrophages)-enhanced CSC (cancer stem cells) function. Concentrations: 5 µg/ml. Incubation Time: 72 h. Method: For co-culture experiments, 12-well Transwell chambers were used with 2×10 ⁵ HepG2 or Hep3B cells seeded in the lower chamber one day before co-culture and either 5×10 ⁵ or 1×10 ⁶ TAMs added in the upper chamber. Tocilizumab or human IgG antibody were added in indicated experiments to selected wells. After 24 to 72 hours, HCC cells and CD14+ TAM cells were collected separately for analysis. Cells:HepG2 cell lines, TAMs isolated from HCCs (hepatocellular carcinoma)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0069 mL	0.0344 mL	0.0689 mL
5 mM	0.0014 mL	0.0069 mL	0.0138 mL
10 mM	0.0007 mL	0.0034 mL	0.0069 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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