

## Itolizumab

## Chemical Properties

CAS No. : 1116433-11-4

Formula:

Molecular Weight: 144.82 kDa

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

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Itolizumab (Anti-Human CD6 Recombinant Antibody) is a recombinant anti-CD6 monoclonal antibody that targets the extracellular SRCR distal domain 1 of CD6, thereby slowing T cell proliferation and inhibiting pro-inflammatory cytokine production. Itolizumab can be used to study conditions such as psoriasis, rheumatoid arthritis (RA), and COVID-19 disease.
Targets(IC50)	Others, Immunology/Inflammation related
In vitro	Inhibiting T cell proliferation, Itolizumab is effective at a concentration of 100 µg/mL[1]. In PBMCs, Itolizumab (0-100 µg/mL) inhibits Treg polarization and enhances the acquisition of the Th1 phenotype[1]. During overnight culture of PBMCs, Itolizumab at 40 µg/mL reduces CD26hiCD161+CD8+T cells[2]. In PBMCs stimulated in Th17 polarizing conditions, Itolizumab at 40 µg/mL for 3-12 days reduces the expression of IL-17 and IFN-γ[3].
In vivo	In a humanized xenograft mouse model of Graft Vs Host Disease (GVHD), Itolizumab demonstrates therapeutic efficacy when administered intraperitoneally at doses of 60 µg or 300 µg daily[4].

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.0069 mL	0.0345 mL	0.0691 mL
5 mM	0.0014 mL	0.0069 mL	0.0138 mL
10 mM	0.0007 mL	0.0035 mL	0.0069 mL
50 mM	0.0001 mL	0.0007 mL	0.0014 mL

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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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