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Human IL-6R Monoclonal Antibody

Catalog No.: YR0003

Basic Information

Molecular Weight
150 kDa

Endotoxin
<1EU/mg (<0.001EU/μg)Determined by LAL gel clotting assay

Sterility
0.2 μm filtration

Aggregation
<5% Determined by SECP

Purity
>95% Determined by SEC-HPLC

Background

What is tocilizumab biosimilar research grade? Tocilizumab is a recombinant humanized monoclonal antibody IL-6 receptor inhibitor used to treat inflammatory and autoimmune conditions. Interleukin 6 (IL-6) is a pro-inflammatory cytokine produced by cells including T-cells, B-cells, lymphocytes, monocytes, fibroblasts. IL-6 rapidly induces C-reactive protein, serum amyloid A, fibrinogen, haptoglobin, and α-1-antichymotrypsin while inhibiting production of fibronectin, albumin, and transferrin. IL-6 also induces antibody production, induces cytotoxic T-cell differentiation, and inhibits regulatory T-cell differentiation. Tocilizumab binds soluble and membrane bound IL-6 receptors, preventing IL-6 mediated inflammation.

Reported Applications

ELISA,neutralization,functional assays such as bioanalytical P K and ADA assays,and those assays for studying biological pathways

Immunogen Information

Clone
Tocilizumab Biosimilar

Isotype
human IgG1 kappa

Immunogen
Human IL-6R

RecommendedIsotype Control(s)
In Vivo Grade Recombinant Human IgG1 Kappa Isotype Control Antibody

Recommended Dilution Buffer
1×PBS pH 7.3

Contact

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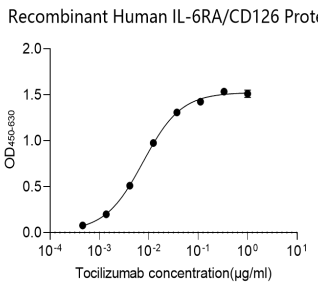
Product Information

Production
Purified from cell culture supernatant in an animal-free facility

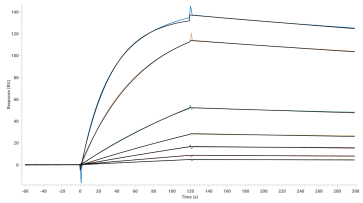
Purification
Protein A or G purification

Storage
Store at -20℃

Validation Data



Direct ELISA binding curve demonstrating the recognition of Human Anti-Human IL-6RA (Research Grade Tocilizumab Biosimilar) Monoclonal Antibody to IL-6RA. The target protein was coated onto the microplate well surface, followed by binding of the antibody. A donkey anti-human IgG HRP conjugate was used for detection.



Human IL-6RA SPR assay. Determined through SPR assay, the Human Anti-Human IL-6RA (Research Grade Tocilizumab Biosimilar) Monoclonal Antibody is capable of binding to Human IL-6RA with an affinity constant of 1.847 nM.