

InVivoSIM anti-human IL-6R (Tocilizumab Biosimilar)

Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at <https://bioxcell.com/terms-and-conditions>.

Lot Specific Information

Lot Number: Lot Specific*
Volume: Lot Specific*
Concentration: Lot Specific* (generally 4 to 11 mg/ml) *
Total Protein: Lot Specific*

*This information will be noted on the certificate of analysis that ships with this product.

Product Information

Catalog Number: SIM0014
Clone: Tocilizumab
Isotype: Human IgG1
Recommended Isotype Control(s): RecombiMAb human IgG1 isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: Human IL-6R
Reported Applications: Functional assays
ELISA
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: <0.5EU/mg (<0.0005EU/μg)
Determined by LAL gel clotting assay
Purity: >95%
Determined by SDS-PAGE
Sterility: 0.2 μm filtration
Production: Purified from cell culture supernatant in an animal-free facility
Purification: Protein A
Aggregation: <5%
Determined by SEC
RRID: [AB_2894735](https://eutils.ncbi.nlm.nih.gov/entrez/eutils/rrid.cgi?db=AB_2894735)
Molecular Weight: 150 kDa

Murine Pathogen Test Results

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative

Description

This non-therapeutic biosimilar antibody uses the same variable regions from the therapeutic antibody Tocilizumab making it ideal for research use. This Tocilizumab biosimilar reacts with human IL-6 receptor also known as CD126. IL-6R is an 80 kDa type I cytokine receptor and a member of the immunoglobulin superfamily. IL-6R is expressed by activated T and B lymphocytes, monocytes, hepatocytes, and plasma cells. The IL-6 receptor α chain binds IL-6 but requires association with gp130 to initiate signal transduction. Upon IL-6 binding the IL-6R complex influences antigen-specific immune responses, inflammatory responses, neuronal development, and is a major mediator of the acute phase reaction. Tocilizumab binds to both soluble and membrane bound IL-6R and blocks the binding of IL-6 to IL-6R.

Storage

Store at the stock concentration at 4°C . **Do not freeze.**

It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at <https://bioxcell.com/faqs>.

Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit

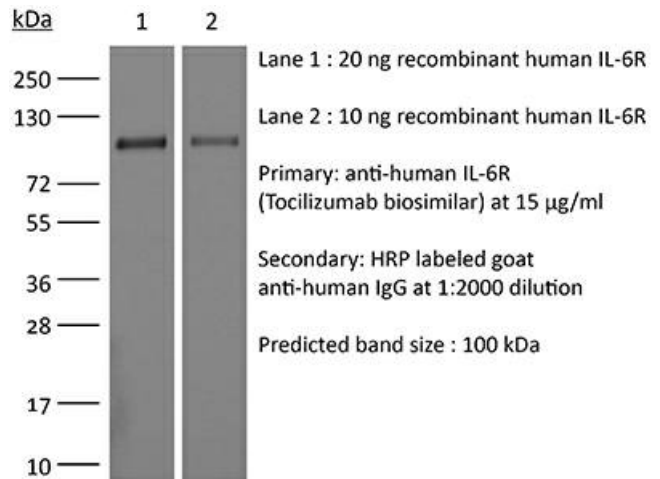
https://bioxcell.com/sim0014?bxcs=9k1b3a#tab_references

or scan the QR code below.



Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail technicalservice@bioxcell.com.



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