

Technical Data Sheet

InVivoSIM anti-human IL-1 β (Gevokizumab 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: SIM0049
Clone: Gevokizumab
Isotype: Human IgG2, κ
Recommended Isotype Control(s): RecombiMAb human IgG2 isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: Human IL-1 β
Reported Applications: *in vivo* neutralization of human IL1 β
in vitro neutralization of human IL1 β
ELISA
Western blot
Flow cytometry
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: <0.5EU/mg (<0.0005EU/ μ g)
Determined by LAL gel clotting assay
Purity: >95%
Determined by SDS-PAGE
Sterility: 0.2 μ m filtration
Production: Purified from cell culture supernatant in an animal-free facility
Aggregation: <5%
Determined by SEC
RRID:
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 biosimilar antibody uses the same variable regions as the therapeutic antibody Gevokizumab, making it ideal for research use. Gevokizumab is a fully humanized monoclonal antibody that reacts with human IL-1 β , a potent pro-inflammatory cytokine produced primarily by monocytes. Inflammatory signals, such as LPS, stimulate the synthesis and promote the accumulation of cytosolic stores of pro-IL1 β , and after inflammasome assembly-mediated CASP1 activation, pro-IL1 is processed to generate active cytokine for secretion. IL-1 β is an important mediator of the inflammatory response

and is involved in a variety of cellular activities, including cell proliferation, differentiation, apoptosis, and T and B lymphocyte activation, neutrophil influx and activation, cytokine production, antibody production, fibroblast proliferation, and the synthesis of collagen as well as prostaglandins. IL-1 β promotes Th17 differentiation of T-cells and also shows synergism with IL-12 to induce IFN- γ synthesis from Th1 cells. The Gevokizumab antibody binds a unique IL-1 β epitope that is proximal to, but does not overlap with, the receptor/ligand interface, and this interaction reduces the binding of IL-1 to its receptor, i.e., IL-1 receptor type I (IL-1RI or CD121a). Gevokizumab neutralizes the human IL-1 β by binding to it, and this antibody is used in preclinical research involving in vitro and in vivo experimental models of type 1 diabetes mellitus, inflammation, rheumatoid arthritis, cardiovascular biology, and cancer immunotherapy.

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

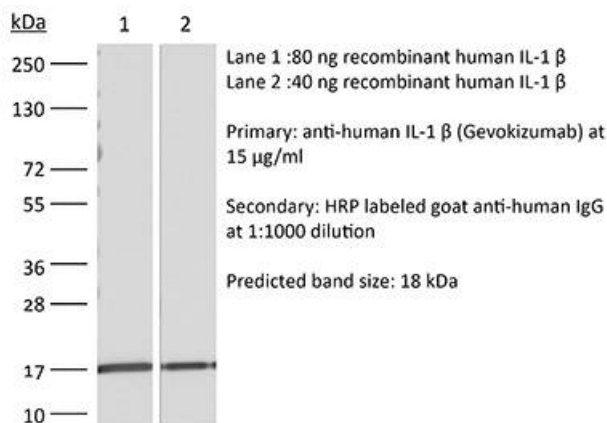
https://bioxcell.com/sim0049?bxcs=9k1b3a#tab_references

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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