Technical Data Sheet

InVivoSIM anti-human TSLP (Tezepelumab 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:	**SIM0036**
Clone:	**Tezepelumab**
Isotype:	Human IgG2, λ
Recommended Isotype Control(s):	InVivoPlus human IgG2 isotype control
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Mutations:	S378A
Immunogen:	Human TSLP
Reported Applications:	Functional assays
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:	
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 Tezepelumab making it ideal for research use. The Tezepelumab biosimilar antibody reacts with human Thymic Stromal-Derived Lymphopoetin (TSLP). TSLP is a cytokine that is closely related to IL-7. TSLP is expressed predominantly by epithelial cells in the thymus, lung, skin, intestine, and tonsils, as well as stromal cells, mast cells, and dendritic cells. TSLP exerts its biological activities by binding to a heterodimeric receptor that consists of IL-7Rα and the TSLP receptor (TSLPR) chain. Expression of TSLP is regulated by NF-κB and can be induced by exposure to viral, bacterial, or parasitic products, inflammatory cytokines, and the Th2 cell–associated cytokines IL-4 and IL-13. TSLP has important roles in conditioning DCs to drive Th2 differentiation and its expression is increased in immunopathologies associated with dysregulated Th2 cell–type cytokine production, including

atopic dermatitis and asthma. It has additionally been reported to promote antibody isotype class switching in B cells, to regulate the development of Foxp3+ Tregs in the human thymus, and to promote basophil hematopoiesis. Tezepelumab was developed for treating moderate-to-severe asthma by specifically binding to TSLP and preventing its binding to the TSLP receptor on inflammatory cells.

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

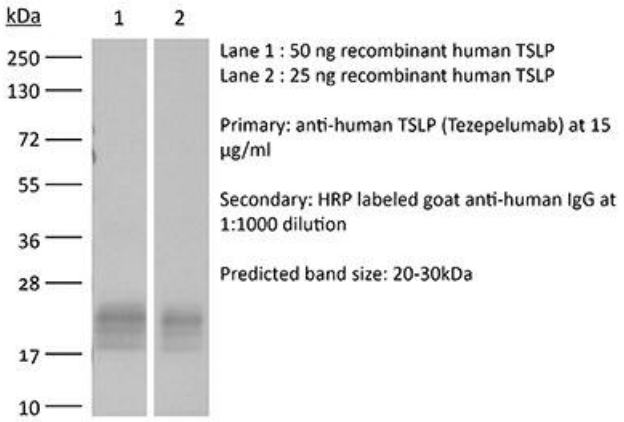
Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/sim0036?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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