Technical Data Sheet

InVivoSIM anti-human GDF15 (Ponsegromab 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:	**SIM0059**
Clone:	**Ponsegromab**
Isotype:	Human IgG1, κ
Recommended Isotype Control(s):	RecombiMAb human IgG1 (K214R/L234F/L235E/P331S) isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Mutations:	L234A/L235A/G237A/KDel
Immunogen:	Human GDF15
Reported Applications:	Functional assays Flow cytometry 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:	
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 as the therapeutic antibody, Ponsegromab, making it ideal for research use. Ponsegromab targets GDF15, also known as growth differentiation factor 15, MIC-1, or NAG-1, a distant member of the transforming growth factor-beta (TGF-β) superfamily. GDF15 is a secreted cytokine that plays a critical role in energy homeostasis, appetite regulation, and the stress response. It is expressed at low levels under physiological conditions but is strongly upregulated in response to cellular stress, tissue injury, inflammation, and malignancy.

Ponsegromab is a human IgG1 monoclonal antibody that binds with high specificity to circulating GDF15, thereby preventing its interaction with its cognate receptor, GFRAL, which is predominantly expressed in the area postrema and nucleus tractus solitarius of the brainstem. GDF15-GFRAL signaling has been implicated in the induction of anorexia and weight loss, particularly in chronic diseases such as cancer and heart failure. By blocking this pathway, Ponsegromab has been shown to reverse cachexia-associated anorexia in preclinical models. This antibody is useful for investigating the biological function of the GDF15-GFRAL axis, modeling therapeutic blockade of GDF15, and exploring the regulation of appetite and body weight in disease contexts. It may also be used to probe the immunometabolic consequences of stress-related cytokine signaling.

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

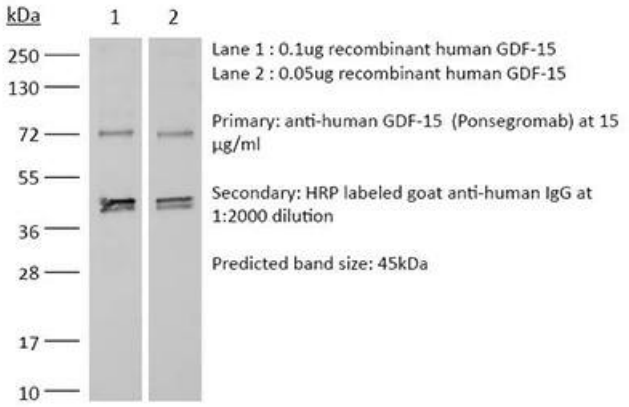
Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/sim0059?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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