Technical Data Sheet

InVivoSIM anti-human IFNy (Emapalumab Biosimilar)



<u>Attention</u>: 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:SIM0074Clone:EmapalumabIsotype:Human IgG1, λ

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: K214R
Immunogen: Human IFNy
Penerted Applications: Functional as

Reported Applications: Functional assays

ELISA Western blot Flow cytometry PBS, pH 7.0

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 Emapalumab making it ideal for research use. Emapalumab is a fully human IgG1 monoclonal antibody that specifically binds interferon-gamma

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(IFNy), both free and receptor-bound forms, to prevent its interaction with the IFNy receptor. IFNy is a 20 kDa soluble pleiotropic cytokine and the sole member of the type II class of interferons. IFNy is primarily produced by activated lymphocytes including T, B, NK cells, and ILCs. IFNy exerts immunoregulatory, anti-proliferative, anti-viral, and proinflammatory activities and plays an important role in activation, growth, and differentiation of T and B lymphocytes, macrophages, NK cells and other non-hematopoietic cell types. Additionally, IFNy induces the production of cytokines, Fc receptor, and adhesion molecules and up-regulates MHC class I and II antigen expression by antigen presenting cells during an immune response. IFNy has also been shown to modulate macrophage effector functions, influence isotype switching and induce the secretion of immunoglobulins by B cells. IFNy signals through the IFN gamma receptor which exists as a heterodimer composed of CD119 (IFN gamma receptor 1) and AF-1 (IFN gamma receptor 2). The IFNy receptor is expressed ubiquitously on almost all cell types with the exception of mature erythrocytes.

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.

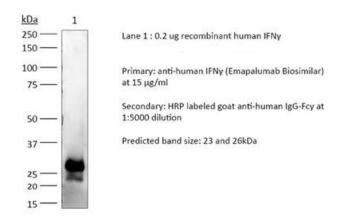
Application References

For a complete list of references, visit https://bioxcell.com/sim0074?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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