Technical Data Sheet

InVivoSIM anti-human CGRP (Fremanezumab biosimilar)

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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:	**SIM0120**
Clone:	**Fremanezumab**
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
Mutations:	A326S/P327S
Immunogen:	Human CGRP
Reported Applications:	*in vivo* functional assays *in vitro* functional assays ELISA Flow cytometry
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	≤0.5EU/mg (≤0.0005EU/μg) Determined by LAL 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

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 Fremanezumab biosimilar antibody uses the same variable regions as the therapeutic antibody Fremanezumab, making it ideal for research use. Fremanezumab is a humanized IgG2a monoclonal antibody that specifically targets calcitonin gene-related peptide (CGRP), a neuropeptide that plays a central role in migraine pathophysiology. CGRP is released from sensory neurons within the trigeminovascular system and contributes to vasodilation, neurogenic inflammation, and pain transmission associated with migraine attacks. By binding soluble CGRP with high affinity, Fremanezumab prevents its interaction with the calcitonin gene-related peptide receptor, thereby inhibiting downstream signaling involved in migraine initiation and propagation. In addition to migraine, CGRP plays important roles in nociception, vascular

homeostasis, and neurogenic inflammation, making it an important target for studying neurovascular biology. This Fremanezumab biosimilar is well suited for studying CGRP biology, neurovascular signaling, pain mechanisms, migraine pathophysiology, and for benchmarking the therapeutic antibody's target engagement and neutralizing activity in pre-clinical experimental systems.

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 ?utm_source=cr9k1b#tab_references or scan the QR code below.

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