

Technical Data Sheet

InVivoSIM anti-human CGRP (Galcanezumab biosimilar)



bioxcell.com

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:	SIM0119
Clone:	Galcanezumab
Isotype:	Human IgG4, κ
Recommended Isotype Control(s):	RecombiMAb human IgG4 S228P L235E P329G (SPLEPG) isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Mutations:	S228P/F234A/L235A/KDeI
Immunogen:	Human CGRP
Reported Applications:	<i>in vivo</i> functional assays <i>in vitro</i> functional assays ELISA Flow cytometry
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	≤ 0.5 EU/mg (≤ 0.0005 EU/ μ g) Determined by LAL assay
Purity:	$\geq 95\%$ Determined by SDS-PAGE
Sterility:	0.2 μ m 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 Galcanezumab biosimilar antibody uses the same variable regions as the therapeutic antibody Galcanezumab, making it ideal for research use. Galcanezumab is a humanized IgG4 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, Galcanezumab 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 has important physiological roles in nociception, vascular homeostasis, and neurogenic inflammation, making it an important target for studying neurovascular biology. This Galcanezumab 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](https://bioxcell.com/?utm_source=cr9k1b#tab_references) or scan the QR code below.



Bio X Cell, LLC

<https://bioxcell.com>

+1-866-787-3444

customerservice@bioxcell.com

Conditions: For research use only. Not for human use. Not for use in diagnostic or therapeutic procedures.

Not for resale.

Bio X Cell, Bio X Cell logo, and all other trademarks are the property of Bio X Cell, LLC © Bio X Cell, LLC