

## InVivoSIM anti-human CGRPR (Erenumab 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:** SIM0103  
**Clone:** Erenumab  
**Isotype:** Human IgG2,  $\lambda$   
**Recommended Isotype Control(s):** RecombiMAb human IgG2 isotype control, anti-hen egg lysozyme  
**Recommended Dilution Buffer:** InVivoPure pH 7.0 Dilution Buffer  
**Immunogen:** Human CGRPR  
**Reported Applications:** *in vivo* functional assays  
*in vitro* functional assays  
ELISA  
Flow cytometry  
**Formulation:** PBS, pH 7.0  
Contains no stabilizers or preservatives  
**Endotoxin:**  $\leq 0.5$  EU/mg ( $\leq 0.0005$  EU/ $\mu$ g)  
Determined by LAL assay  
**Purity:**  $\geq 95\%$   
Determined by SDS-PAGE  
**Sterility:** 0.2  $\mu$ m 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 Erenumab biosimilar antibody uses the same variable regions as the therapeutic antibody Erenumab, making it ideal for research use. Erenumab is a fully human IgG2 monoclonal antibody that specifically targets the calcitonin gene-related peptide receptor (CGRPR), a heterodimeric complex composed of calcitonin receptor-like receptor (CLR) and receptor activity-modifying protein 1 (RAMP1). The CGRPR is expressed on vascular smooth muscle cells, sensory neurons, and components of the trigeminovascular system, where CGRP signaling drives vasodilation, neurogenic inflammation, and pain transmission associated with migraine pathophysiology. By binding the CGRPR, Erenumab prevents ligand engagement

and downstream signaling, thereby inhibiting CGRP-mediated neurovascular activation. This Erenumab biosimilar is well suited for studying CGRPR biology, neurovascular signaling, pain mechanisms, and for benchmarking therapeutic receptor blockade 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 [https://bioxcell.com/sim0103?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/sim0103?bxcs=9k1b3a#tab_references) or scan the QR code below.



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