Technical Data Sheet

InVivoSIM anti-human CGRP (Eptinezumab 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:	**SIM0101**
Clone:	**Eptinezumab**
Isotype:	Human IgG1, κ
Recommended Isotype Control(s):	RecombiMAb human IgG1 (N297A) isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Mutations:	K213A/K214R/F241T/N297A
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
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 Eptinezumab biosimilar antibody uses the same variable regions as the therapeutic antibody Eptinezumab, making it ideal for research use. Eptinezumab is a humanized IgG1 monoclonal antibody that specifically targets calcitonin gene-related peptide (CGRP), a neuropeptide that plays a central role in migraine pathophysiology. CGRP is widely expressed in sensory neurons of the trigeminovascular system and is a potent vasodilator and mediator of neurogenic inflammation.

Elevated CGRP levels are associated with migraine attacks, where it contributes to vasodilation, nociceptive signaling, and central sensitization. By binding soluble CGRP with high affinity, Eptinezumab prevents CGRP from engaging its receptor complex (CLR/RAMP1), thereby inhibiting downstream signaling pathways involved in migraine initiation and propagation. Clinically, Eptinezumab has demonstrated efficacy in reducing migraine frequency and severity in patients with episodic and chronic migraine. This Eptinezumab biosimilar is well suited for studying CGRP biology, neurovascular signaling, neurogenic inflammation, pain pathways, 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 https://bioxcell.com/sim0101?bxcs=9k1b3a#tab_references or scan the QR code below.

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