Technical Data Sheet

bioXcell

InVivoSIM anti-human PCSK9 (Evolocumab 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:	**SIM0095**
Clone:	**Evolocumab**
Isotype:	Human IgG2, λ
Recommended Isotype Control(s):	RecombiMAb human IgG2 isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Human PCSK9
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 Evolocumab biosimilar antibody uses the same variable regions as the therapeutic antibody Evolocumab, making it ideal for research use. Evolocumab is a fully human IgG2 monoclonal antibody that targets proprotein convertase subtilisin/kexin type 9 (PCSK9), a secreted serine protease that regulates plasma LDL cholesterol levels. PCSK9 binds to LDL receptors (LDLR) on hepatocytes and directs them toward lysosomal degradation, thereby reducing LDLR recycling and increasing circulating LDL cholesterol. By binding PCSK9 with high affinity, Evolocumab prevents its interaction with LDLR, leading to increased receptor availability on hepatocyte surfaces and enhanced clearance of LDL particles from

circulation. Clinically, Evolocumab has demonstrated potent LDL-lowering activity in patients with hypercholesterolemia, familial hypercholesterolemia, and cardiovascular disease risk. This Evolocumab biosimilar is well suited for studying PCSK9 biology, lipid metabolism, LDLR regulation, hepatocyte signaling, and the mechanistic basis of therapeutic PCSK9 inhibition.

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/sim0095?bxcs=9k1b3a#tab_references or scan the QR code below.