Technical Data Sheet

InVivoSIM anti-human Tissue Factor (CD142) (Tisotumab 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:	**SIM0084**
Clone:	**Tisotumab**
Isotype:	Human IgG1, κ
Recommended Isotype Control(s):	RecombiMAb human IgG1 (K214R/L234F/L235E/P331S) isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Mutations:	K214R
Immunogen:	Human Tissue Factor (CD142)
Reported Applications:	Antibody-drug conjugate synthesis *in vivo* functional assays *in vitro* functional assays Flow cytometry ELISA
Formulation:	pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	≤0.5EU/mg (≤0.0005EU/μg) Determined by LAL gel clotting 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 non-therapeutic biosimilar antibody uses the same variable regions as the therapeutic antibody, Tisotumab, making it ideal for research use. Tisotumab is a humanized IgG1 monoclonal antibody that reacts with human and monkey tissue factor

(TF), also known as CD142, coagulation factor Ⅲ (F3), and thromboplastin. TF is a single-pass transmembrane glycoprotein that is essential for initiating blood coagulation by forming a complex with circulating factor Ⅶ (F7) or serum prothrombin conversion accelerator (SPCA). This interaction converts the factor Ⅶ to Ⅶa, which follows the TF:Ⅶa complex-mediated activation of factors Ⅸ or Ⅹ through proteolysis. Recent research has explored the involvement of CD142 in additional cellular signaling pathways responsible for tumor growth, e.g., mitogen-activated protein kinase (MAPK), phosphatidylinositol-3-kinase AKT (PI3K-AKT), and Wnt signaling pathways. TF shows aberrant expression in some tumors, and owing to its internalizing capacity, an in vivo study with patient-derived xenograft models of solid tumors has explored the potential of a monomethyl auristatin E (MMAE)-based antibody-drug conjugate (ADC) targeting TF for its anti-cancer activity. The tisotumab biosimilar is an antibody portion of an ADC called tisotumab vedotin, which is known for targeting the TF antigen, thereby directly delivering the cytotoxic microtubule-disrupting agent MMAE to cancer cells.

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/sim0084?bxcs=9k1b3a#tab_references or scan the QR code below.

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