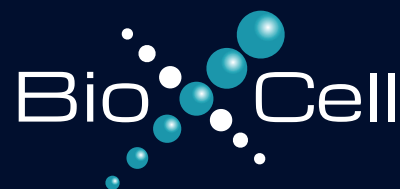


Biosimilars

Research-Grade Biosimilar Monoclonal Antibodies

bioxcell.com



Research-Grade Biosimilar Monoclonal Antibodies

What Are *InVivoSIM*[™] Biosimilar Antibodies?

Bio X Cell *InVivoSIM*[™] Biosimilar Antibodies are research-grade biosimilar monoclonal antibodies. Each biosimilar antibody is produced using recombinant technology and incorporates the same variable region sequence as the original pharmaceutical drug. Biosimilar antibodies make it possible to study the biological effects of a drug without needing to source expensive pharmaceutical-grade therapeutics. They can be used for many research applications including functional assays, flow cytometry, ELISA, Immunohistochemistry, pharmacokinetic assays, and others.

InVivoSIM[™] biosimilar antibodies are offered with the same purity and *in vivo* formulations that Bio X Cell is known for. Our biosimilar antibodies are of exceptional quality and consistency. They are ultra-pure and free of preservatives, stabilizers, and carrier proteins, making them ideal for *in vivo* applications including drug efficacy studies in humanized mouse models.

InVivoSIM[™] Biosimilar Antibodies Feature

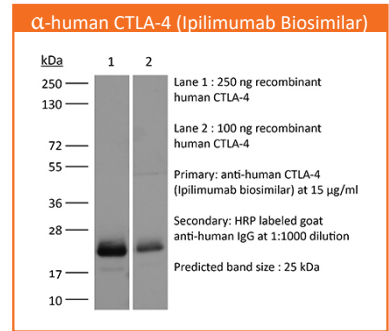
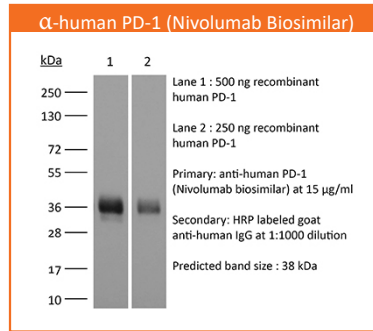
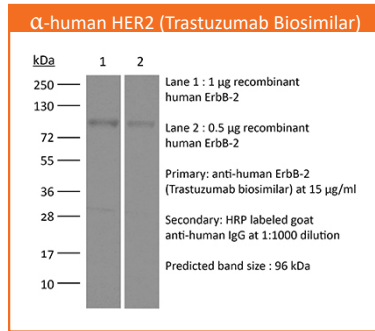
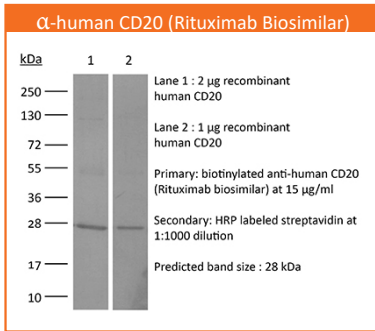
- **Exceptional Purity:** Each lot is QC tested for purity using SDS-PAGE and are preservative, stabilizer, and carrier protein-free.
- **Binding Validation:** Each lot of *InVivoSIM*[™] product is validated for antigen binding by immunoblot.
- **Ultra-low Endotoxin Levels:** The level of endotoxin is QC tested for each lot. Our *InVivoSIM*[™] biosimilar antibodies are ≤ 0.5 EU/mg. If endotoxin levels below 0.5 EU/mg are required, please contact technical support to discuss your needs.
- **Pathogen Free:** Each lot of *InVivoSIM*[™] product is screened for an exhaustive panel of murine pathogens. The results are detailed on product-specific datasheets, to help you adhere to IACUC and Animal Facility requirements.
- **Low Protein Aggregation:** Each lot of *InVivoSIM*[™] product is QC tested for aggregate level and guaranteed to be below 5% of the total protein.

Bio X Cell *InVivoSIM*[™] anti-human CTLA-4 (Ipilimumab Biosimilar) was used to neutralize CTLA-4 *in vivo* in humanized mice in a paper titled "Oncolytic virus driven combination immunotherapy shows promise in colorectal cancer," published in *Frontiers*.

InVivoSIM[™] Biosimilar Antibodies

purity level	> 95%
protein aggregates validated at $\leq 5\%$	✓
azide and carrier protein free	✓
endotoxin concentration	< 0.5EU/mg
validated by immunoblot, FC, or ELISA	✓
screened for murine pathogens	✓
available in bulk quantities	✓

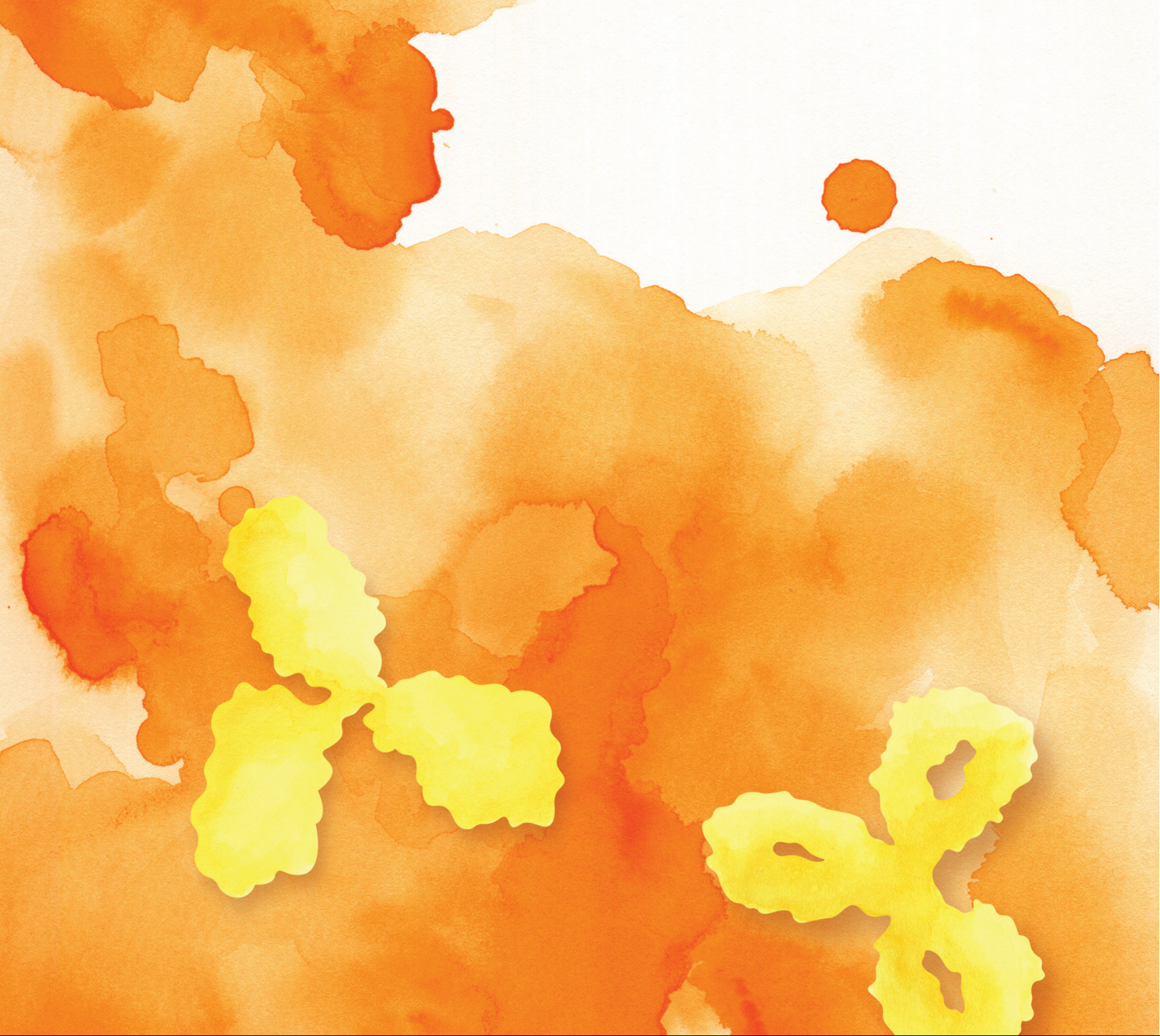
Research-Grade Biosimilar Monoclonal Antibodies



Product Name	Application	Catalog #	Isotype Control
InVivoSIM anti-human amyloid-beta (Lecanemab Biosimilar)	Functional assays	SIM0032	CP174
InVivoSIM anti-human C5 (Eculizumab Biosimilar)	Inhibition of the activation of C5, Functional assays, ELISA, IP	SIM0011	CP147
InVivoSIM anti-human CD20 (Rituximab Biosimilar)	Flow Cytometry, ELISA, WB	SIM0008	CP174
InVivoSIM anti-human CD25 (IL-2R α) (Daclizumab Biosimilar)	Functional assays, WB,FC	SIM0035	CP173
InVivoSIM anti-human CD326 (EpCAM) (Edrecolomab Biosimilar)	Functional assays, ELISA,FC	SIM0045	BP0085
InVivoSIM anti-human CD38 (Daratumumab Biosimilar)	Functional assays, ELISA, WB,FC	SIM0034	CP175
InVivoSIM anti-human CEACAM5 (Labetuzumab Biosimilar)	<i>in vivo</i> functional assays, <i>in vitro</i> functional assays, ELISA, WB,FC	SIM0039	CP174
InVivoSIM anti-human Claudin 18.2 (Zolbetuximab Biosimilar)	Functional assays	SIM0026	CP174
InVivoSIM anti-human CTLA-4 (Ipilimumab Biosimilar)	CTLA-4 neutralization,FC, ELISA, WB	SIM0004	CP174
InVivoSIM anti-human CTLA-4 (Tremelimumab Biosimilar)	CTLA-4 neutralization,FC, ELISA, WB	SIM0046	
InVivoSIM anti-human EGFR (Cetuximab Biosimilar)	EGFR blockade, ELISA,FC	SIM0002	CP174
InVivoSIM anti-human HER2 (Pertuzumab Biosimilar)	Functional assays, ELISA, Neutralization	SIM0019	CP174
InVivoSIM anti-human HER2 (Trastuzumab Biosimilar)	<i>in vitro</i> HER2+ cell depletion (ADCC assay), Antibody-drug conjugate synthesis, Functional Assays,FC, ELISA,IHC, WB	SIM0005	CP174
InVivoSIM anti-human IFNAR1 (Anifrolumab Biosimilar)	Functional assays, WB, ELISA	SIM0022	CP175
InVivoSIM anti-human IgE (Omalizumab Biosimilar)	IgE neutralization, FC, ELISA	SIM0016	CP174
InVivoSIM anti-human IL-12 p40 (Ustekinumab Biosimilar)	Functional assays,	SIM0020	CP174
InVivoSIM anti-human IL-13 (Tralokinumab Biosimilar)	<i>in vivo functional assays, in vitro functional assays, ELISA,FC</i>	SIM0042	CP181
InVivoSIM anti-human IL-17A (Ixekizumab Biosimilar)	Functional assays, ELISA, Immunofluorescence,FC, WB	SIM0029	CP147
InVivoSIM anti-human IL-17A (Secukinumab Biosimilar)	Functional assays, ELISA, IF,IHC,FC	SIM0013	CP174
InVivoSIM anti-human IL-1 β (Canakinumab Biosimilar)	Functional assays, ELISA,FC	SIM0044	CP175
InVivoSIM anti-human IL-23 (p19) (Guselkumab Biosimilar)	IL-23p19 neutralization, Functional assays, ELISA, WB,	SIM0025	CP169
InVivoSIM anti-human IL-4R α (CD124) (Dupilumab Biosimilar)	Functional assays	SIM0023	CP147
InVivoSIM anti-human IL-6 (Siltuximab Biosimilar)	Functional assays, ELISA,	SIM0030	CP174
InVivoSIM anti-human IL-6R (Tocilizumab Biosimilar)	Functional assays, ELISA	SIM0014	CP174
InVivoSIM anti-human integrin α 4 β 1 (VLA-4)	Functional assays ,FC	SIM0018	BE0092
InVivoSIM anti-human integrin α 4 β 7 (LPAM-1) (Vedolizumab Biosimilar)	Functional assays, ELISA, WB,	SIM0024	CP149
InVivoSIM anti-human LAG-3 (Relatlimab Biosimilar)	ELISA	SIM0015	CP147
InVivoSIM anti-human mesothelin (Amatuximab Biosimilar)	<i>in vivo</i> functional assays, <i>in vitro</i> functional assays, ELISA, WB,FC	SIM0040	CP174
InVivoSIM anti-human nectin-4 (Enfortumab Biosimilar)	Functional assays, ELISA, WB	SIM0031	CP174
InVivoSIM anti-human NGF (Tanezumab Biosimilar)	NGF neutralization , ELISA	SIM0017	BP0301
InVivoSIM anti-human PD-1 (Cemiplimab Biosimilar)	Blocking of PD-1/PD-L signaling, Functional assays, ELISA	SIM0037	CP147
InVivoSIM anti-human PD-1 (Nivolumab Biosimilar)	<i>in vitro</i> PD-1 neutralization, <i>in vivo</i> PD-1 blockade in humanized mice,FC,IHC, WB	SIM0003	CP147
InVivoSIM anti-human PD-1 (Pembrolizumab Biosimilar)	Blocking of PD-1/PD-L signaling, Functional assays	SIM0010	CP147
InVivoSIM anti-human PD-1 (Tislelizumab Biosimilar)	Blocking of PD-1/PD-L signaling, Functional assays, ELISA	SIM0038	CP183
InVivoSIM anti-human PD-L1 (Atezolizumab Biosimilar)	Flow Cytometry, WB	SIM0009	CP171
InVivoSIM anti-human PD-L1 (Avelumab Biosimilar)	Functional assays, ELISA, <i>in vitro</i> PD-L1 blockade	SIM0021	CP169
InVivoSIM anti-human PD-L1 (Durvalumab Biosimilar)	ELISA,FC, WB, Functional assays	SIM0027	CP149
InVivoSIM anti-human RANKL (CD254) (Denosumab Biosimilar)	Functional assays, FC	SIM0028	CP174
InVivoSIM anti-human SLAMF7 (Elotuzumab Biosimilar)	<i>in vivo</i> functional assays, <i>in vitro</i> functional assays, ELISA, WB, IP,FC	SIM0041	CP174
InVivoSIM anti-human TIGIT (Tiragolumab Biosimilar)	Functional assays, ELISA, WB, FC	SIM0033	BP0297
InVivoSIM anti-human TIM-3 (Sabatolimab Biosimilar)	Functional assays, ELISA, FC	SIM0043	CP147
InVivoSIM anti-human TNF α (Adalimumab Biosimilar)	TNF α neutralization,FC, ELISA, IF, IP,IHC, WB	SIM0001	CP174
InVivoSIM anti-human TNF α (Infliximab Biosimilar)	TNF α neutralization,FC, ELISA, WB	SIM0006	CP174
InVivoSIM anti-human TSLP (Tezepelumab Biosimilar)	Functional assays	SIM0036	BP0301
InVivoSIM anti-human VEGF (Bevacizumab Biosimilar)	VEGF neutralization, FC, ELISA, IP, Western Block	SIM0007	CP174
InVivoSIM anti-human VEGFR-2 (Ramucirumab Biosimilar)	Functional assays, IHC, FC	SIM0012	CP174

Don't see a Biosimilar antibody of your interest? Contact us for more information at: customerservice@bioxcell.com

IF Immunofluorescence | IHC Immunohistochemistry | WB Western blot | IP Immunoprecipitation | FC Flow cytometry



For the full list of our products, scan the QR code or visit us at bioxcell.com/biosimilars.

For over 25 years, scientists have trusted Bio X Cell as their go-to source for *in vivo* functional grade antibodies. This is reflected in over 20,000 peer-reviewed publications citing Bio X Cell products. We understand this responsibility is of paramount importance and remain committed to producing antibodies of unparalleled quality and consistency, enabling our partners around the globe to accelerate research and discoveries.

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