

Expanding Possibilities in Therapeutic Modeling

Research-grade biosimilars, bispecifics, and peptides
to drive discovery beyond traditional formats

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Expanding Possibilities in Therapeutic Modeling

In vivo ready, next generation antibody formats for translational research

Bio X Cell offers a growing suite of advanced antibody formats, including *InVivoSIM*™ biosimilars, bispecifics, and antibody–drug conjugates (ADCs). These formats enable researchers to study the biological effects of drugs without the cost or sourcing challenges of pharmaceutical-grade therapeutics. *InVivoSIM*™ antibodies support a wide range of pre-clinical applications, including large-scale *in vivo* work, translational *in vitro* organoid and organ-on-chip systems, and pharmacokinetic studies.

With ultra-pure, low endotoxin, preservative-free formulations, *InVivoSIM*™ biosimilars, bispecifics, and ADCs power functional studies across diverse research areas, from benchmarking approved therapeutics and investigating dual-target mechanisms to modeling drug efficacy. Minimize variability and accelerate your next breakthrough with advanced antibody formats from Bio X Cell.

Why Choose Bio X Cell?

Cited in Nearly 30,000 Publications. Trusted Worldwide.



Flexible starting points including customer-provided cells or sequence, or a Bio X Cell antibody



Scalable production from milligrams to grams



Custom services available for advanced antibody formats



Exceptional quality & purity

- Formulated for *in vivo* use
- Unmatched lot-to-lot consistency
- ≤0.5 EU/mg endotoxin level
- ≥95% Purity
- No added carriers or preservatives



PhD-level technical support



Lot-specific certificates of analysis available on demand



Antibodies available globally with rapid shipping



Extensive biosimilar, bispecific & peptide experience

Products

Advanced Antibody Formats for Modern Research



InVivoSIM™ Biosimilars

Research-grade monoclonal antibodies designed to mirror approved therapeutics' variable region. Produced recombinantly and formulated to Bio X Cell's rigorous *in vivo* standards.



Bispecific Antibodies

Dual-targeting monoclonals engineered for unique mechanism-of-action studies, tumor model engagement, and T cell redirection strategies. Ideal for translational and mechanistic immunology research.



Custom Capabilities

Don't see the biosimilar or comparator you need? Bio X Cell offers custom solutions to produce molecules not otherwise available in the catalog.

Products

Featured Biosimilars and Bispecifics

All antibodies from Bio X Cell feature detailed Certificates of Analysis to support your documentation needs. Bio X Cell offers fast, global delivery, ensuring critical reagents won't slow down your next small or large-scale functional study.

Antigen	Therapeutic Analog	Applications
PD-1	Pembrolizumab, Nivolumab, Cemiplimab	Modeling checkpoint blockade in preclinical tumor models
PD-L1	Atezolizumab, Avelumab, Durvalumab	Tumor immune evasion pathway research
CTLA-4	Ipilimumab, Tremelimumab	Evaluating immune priming in combination immunotherapy
CD3 x BCMA	Teclistamab	Preclinical modeling of bispecific T-cell engager activity in multiple myeloma
CD3 x GPRC5D	Talquetamab	Evaluating dual-targeting strategies for resistant myeloma models
HER2	Trastuzumab	Preclinical modeling of HER2-positive breast and gastric cancers
EGFR	Cetuximab	Tumor growth inhibition assays in EGFR-driven cancers
VEGF	Bevacizumab	Angiogenesis inhibition studies in solid tumor models

Applications

Designed for Translational and Functional Studies

Biosimilars, bispecifics, and ADCs from Bio X Cell support advanced applications, including:


- ✔ Drug efficacy benchmarking in humanized mouse models
 - ✔ Dual-target engagement and immune redirection studies
 - ✔ IT cell activation and cytotoxicity assays
- ✔ Tumor microenvironment modulation
 - ✔ Immune checkpoint profiling in tumor and inflammatory models
 - ✔ Pharmacokinetic assays and therapeutic equivalency modeling


Custom Services


Tailored Solutions for Sophisticated Projects

Use a catalog Bio X Cell antibody or your own to create novel bispecific antibodies designed around your study needs.



- 

Custom Conjugation
Tailor fluorescent tags for multi-color analysis
- 

Custom Formulation and Antibody Engineering
Expert support to optimize and engineer antibodies for your experiments
- 

Bulk Manufacturing
Secure reagent supply at scale for extended studies



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