

BIOPHARMA  
**RESEARCH &  
INNOVATION**

PRODUCTS & SERVICES

# About Us

Antibodies.com, a UK-based company, provides high-quality research tools globally, including antibodies, proteins, and ELISA kits. We prioritize sustainability, reproducibility, fairness, and positive societal impact in all our endeavors.

## Mission

Our mission is not only to provide top-tier antibodies and antigens but to source them through sustainable and ethical methods. By doing so, we aim to foster a responsible and impactful contribution to scientific advancement.

## Partnerships

Antibodies.com has established partnerships and collaborations with several academic and industrial organizations, such as the University of Cambridge, the University of Oxford, and the Francis Crick Institute to support biopharma and preclinical research and development.

## Sustainability

Antibodies and antigens that are good for **you**, good for the **planet**, and good for the **society**.

### SUSTAINABLE ANTIBODIES

Antibodies that are produced in a way that does not harm the environment, animals, or human health.

### REPRODUCIBLE ANTIBODIES

Antibodies that have consistent and reliable performance in different experiments and applications.

### FAIR-TRADED ANTIBODIES

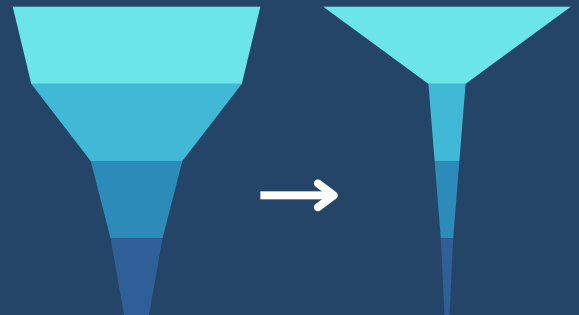
Antibodies that are sourced and sold in a way that respects the rights and interests of all parties involved, such as researchers, manufacturers, suppliers, and consumers.



# Our Solutions for BioPharma

## How we see it.

We strive to expedite BioPharma research by streamlining the drug discovery process, reducing steps and candidates in the funnel. Our goal is to enhance clinical trial efficiency and efficacy, accelerating the development of new medicines.



Traditional vs. Optimized Drug Discovery Funnel

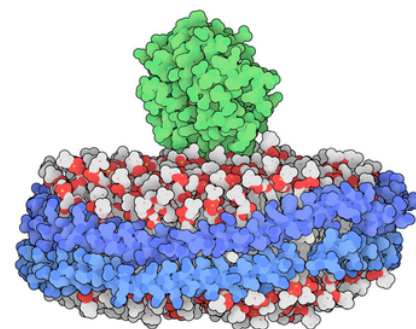


## Optimizing Drug Discovery Trimming the Funnel for Efficiency

- Target Identification & Validation  
GENOMICS, PROTEOMICS, AND OTHER OMICS TECHNOLOGIES
- Hit Generations & Optimization  
HIGH-THROUGHPUT SCREENING AND AI/ML
- Lead Generation & Optimization  
PHARMACOLOGY, TOXICOLOGY, AND PHARMACO-KINETICS
- Preclinical Development  
ANIMAL MODELS AND HUMAN SPECIMENS

# Nanodisc Technology

It is a technology for studying membrane proteins more naturally and stably. It involves creating small, disc-shaped structures that mimic the lipid bilayer of cell membranes, and inserting the target membrane protein into them. The nanodiscs are surrounded by a protein belt that keeps them soluble and uniform in size.



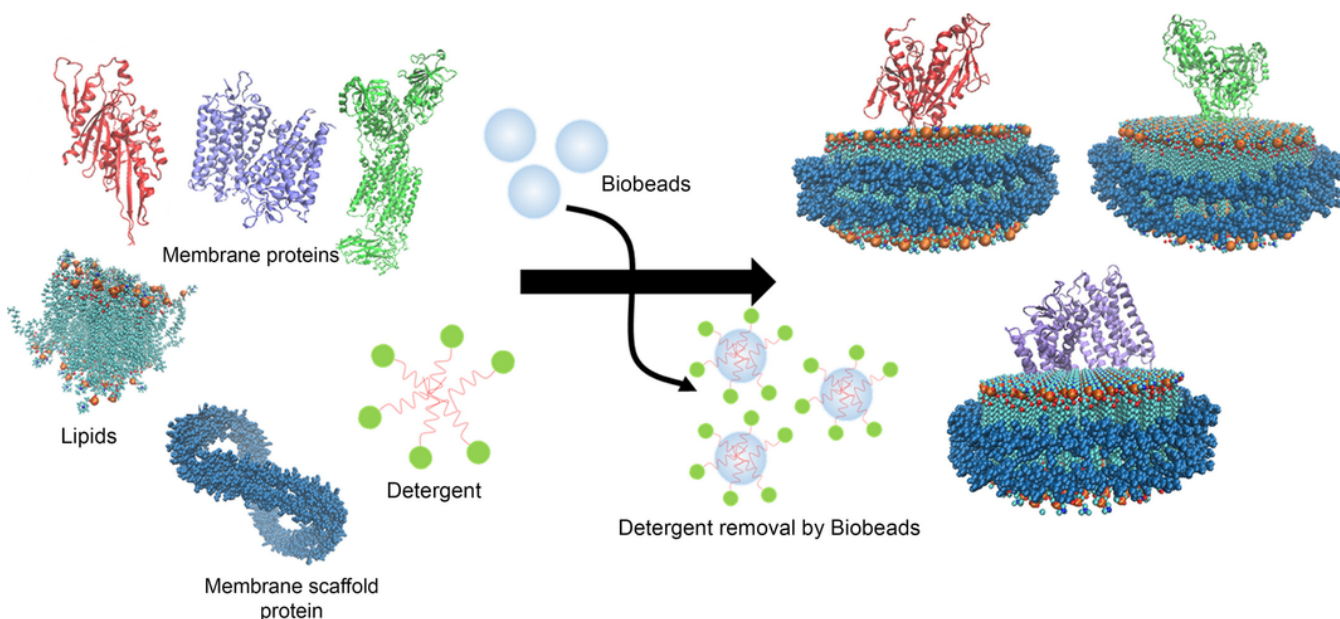
## Why is Nanodisc Technology important?

### Unlocking Membrane Proteins – Addressing 'Undruggable' Targets

- Provide a native-like lipid environment for membrane proteins, which preserves their structure and function better than other methods.
- Enable the study of membrane protein interactions with other molecules, such as viruses, drugs, and antibodies.
- Allow the manipulation and characterization of membrane proteins using various techniques, such as spectroscopy, NMR, mass spectrometry, and microscopy.

Transmembrane proteins span the cell membrane, playing roles in transport, signaling, and recognition. Receptors like CCR8, GPRC56, and CCR6 are examples, influencing cellular responses and associated with various diseases.

Nanodiscs are a versatile nanocarrier platform for **cancer diagnosis** and **treatment**, as they can **deliver a wide range of payloads** to target cells and tissues. Nanodiscs can also be **customized in size, shape, and composition** to suit different applications.



# Related Products

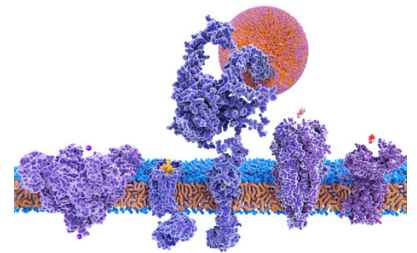
Currently, we have over **150 Nanodisc products** in our catalogue. Kindly be aware that we are consistently expanding our selection of top-tier nanodisc products within our portfolio. We encourage you to visit our website for more products.

Main Category	Synthetic Nanodisc Human for
G Protein-Coupled Receptors (GPCRs)	OR52D1, GPR14, MGLUR2, H3R, APLNR, NTSR1, GIPR, GPR84, TRPV1, GPR133, CMKLR1, CRTH2, CXCR6, B2R, MC4-R, XCR1, MGLUR7, GRPR, CD97, G2A, CX3CR1, F2RL3, GLP2R, GPR20, GPR64, MRGX2, GPR56, GPR65, PK-R1, Ox-1-R, Angiotensin II Type 1 Receptor, EP4, PTGER2, RDC1, CXCR-7, CCR1, ADORA2B, GnRHR, CXCR1, EMR2, Tspan-8, LGR6, KCNK9, GPR87, ZIP-6, GPR55, CXCR3, CD39, GPR40, GLP-1R, LGR4, CCR5, GPR75, OR2H1, Cannabinoid Receptor I, A2a, Claudin 6, Claudin18.2, Somatostatin Receptor 2, GPRC5D
Chemokine Receptors (CCR)	CCR1, CCR3, CCR4, CCR5, CCR6, CCR7, CCR8
Toll-Like Receptors (TLR)	TLR2, TLR4, TLR5, TLR7, TLR9
Claudins	Claudin 2, Claudin 3, Claudin 4, Claudin 5, Claudin 6, Claudin 7, Claudin 9, Claudin18.2
Other Receptors	SR-BI, CM2, Frizzled 7, Glucagon Receptor, Cannabinoid Receptor II, Somatostatin Receptor 2, A2a, PVRIG, PAR2, ANT1, C5a-R, P Glycoprotein, Somatostatin Receptor 2
Transporters	GLUT12, GLUT4, NBCn1, ZIP-6, ASCT2
Other Proteins	CLPTM1, Frizzled 4, FZD10, CD81, CD63, CD37, CD36, CD20, CD133, CD151, CD47, CD63, CD63, CD20, CD20, CD133, CD36, STEAP1, STEAP2, TETRASPANIN-33
Ion Channels and Transporters	TRPV1, KCNK9, xCT, TRPA1, ANT1
Other Signaling Proteins	STING, PLA2R, TSH-R, P2X7, P Glycoprotein

Please note that this table provides a concise overview, and proteins may have multiple functions or associations.

# Transmembrane Proteins

Transmembrane proteins span cell membranes, playing crucial roles in signal transduction, transport, and structure. They have hydrophobic and hydrophilic regions and come in single-pass, multi-pass, or GPI-anchored forms. These proteins are essential for cellular functions, serving as receptors, transporters, enzymes, and contributing to membrane integrity.



## Importance of Transmembrane Proteins

Transmembrane proteins are crucial in drug discovery for several reasons:

- **Drug Targets:** Many transmembrane proteins serve as excellent targets for drug development because they play key roles in essential cellular processes. Receptors, ion channels, and transporters are examples of transmembrane proteins that can be targeted to modulate signalling pathways or regulate the transport of substances across membranes.
- **Signal Transduction Pathways:** Transmembrane proteins are integral to signal transduction, the process by which cells respond to external stimuli. Modulating these pathways can be a strategy for drug intervention. For instance, G protein-coupled receptors (GPCRs), a type of transmembrane protein, are targeted by a large number of drugs due to their involvement in various signalling cascades.
- **Disease Relevance:** Many diseases are associated with dysregulation or mutations in transmembrane proteins. Understanding these proteins helps researchers identify potential drug targets for diseases such as cancer, neurological disorders, and cardiovascular diseases.
- **Transport and Metabolism:** Transmembrane proteins involved in the transport of ions, nutrients, and drugs across cell membranes are crucial for drug absorption, distribution, and elimination. Targeting these proteins can influence drug pharmacokinetics and enhance therapeutic outcomes.

## Typical Transmembrane Proteins

<b>Receptors</b>	<ul style="list-style-type: none"> <li>• GPCRs: Beta-adrenergic receptor, Dopamine receptor, Serotonin receptor.</li> <li>• RTKs: EGFR (Epidermal Growth Factor Receptor), Insulin Receptor, PDGFR (Platelet-Derived Growth Factor Receptor).</li> </ul>
<b>Ion Channels</b>	<ul style="list-style-type: none"> <li>• Voltage-Gated Ion Channels: Sodium channel, Potassium channel, Calcium channel.</li> <li>• Ligand-Gated Ion Channels: Nicotinic Acetylcholine Receptor, NMDA Receptor, GABA-A Receptor.</li> </ul>
<b>Transporters</b>	<ul style="list-style-type: none"> <li>• ABC Transporters: P-glycoprotein (MDR1), MRP (Multidrug Resistance-Associated Protein), BCRP (Breast Cancer Resistance Protein).</li> <li>• SLC Transporters: GLUT (Glucose Transporter), SGLT (Sodium-Glucose Transporter), DAT (Dopamine Transporter).</li> </ul>

# Related Products

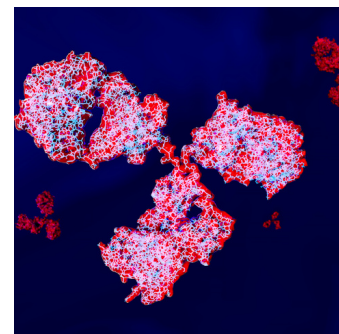
Currently, we have over **recombinant 1000 transmembrane proteins and peptides** in our catalogue. Kindly be aware that we are consistently expanding our selection of top-tier transmembrane products within our portfolio. We encourage you to visit our website for more products.

Category	Transmembrane Proteins/Peptides (recombinant)
Growth Factors	FGF2, EGF, IGF1, IL-6, TGF alpha, VEGFA, G-CSF, GM-CSF, PDGF B, HGF, BMP2, BMP6, FGF1, FGF8b, FGF8f, FGF10, FGF17, FGF19, FGF21, IL-3, IL-4, IL-15, IL-15RA + IL-15, IL-18, IL-21, TNF alpha, TNF Receptor I, TNF Receptor II, PD-L2, IL-10, IL-11RA, IL-22RA2
Cytokine Receptors	IL-2 Receptor alpha, IL-2 Receptor beta / p75, IL-4R, IL-5RA, IL-6R, IL-7, IL-8, IL-9R, IL-10RA, IL-11RA, IL-13 Receptor alpha 1, IL-15RA, IL-17RA Receptor, IL-18R1, IL-20R1, IL-21R, IL-28A, IL-28B, IL-31, TNFRSF14 / HVEM, TNFSF18 / GITRL, TNFSF15 / TL1A, TNF Receptor II
Interferons	Interferon alpha 1, Interferon alpha 2a, Interferon alpha 2b, Interferon alpha 4, Interferon beta, Interferon gamma, IFN gamma Receptor beta / AF-1, IFNW1, TLR3
Receptor Tyrosine Kinases	EGFR, ERBB2 / HER2, TYRO3, AXL, FLT3, MET, RON, KIT, PDGF Receptor beta, VEGFR1, VEGFR2, FGFR3, FGFR4, RET, Eph Receptor A2, Eph Receptor A3, Eph Receptor A4 / SEK, Eph Receptor B2, Eph Receptor A5 / BSK, ALK, INSR, IGF1 Receptor, FGFR1, FGFR2, FGFR4, FGFR3, NTRK1, NTRK2, NTRK3, DDR2
Cell Adhesion Molecules	CD44, CD47, CD48, CD5, CD9, CD22, CD93, CD276, CD166, CD34, CD146, CD62L, CD24, CD117 / c-Kit, CD56, CD133, CD19, CD37, CD81, CD84, CD200 / OX2, CD200R, CD229, CD272 / BTLA, CD276, CD279 / PD-1, CD273 / PD-L2, CD274 / PD-L1, CD275 / ICOSLG, CD319 / BTLA
Immune Checkpoints	PD-1, PD-L1, PD-L2, CTLA4, ICOS, B7H4, TIM 3, LAG-3, GITR, OX40L / TNFSF4, CD137, 2B4, CD48, CD27, CD28, CD276, CD137L, SIRP alpha, CD47, CD160, TIGIT, BTLA, CD223, CD200 / OX2, CD275 / ICOSLG, CD319 / BTLA
GPCRs	GPCR RDC1 / CXCR-7, GPCR GPR48 / LGR4, Adenosine A2b Receptor / ADORA2B, Adenosine A3 Receptor / A3AR, GPCR GPR75, GPCR GPRC5D, GPCR GPRC5C, GPCR GPRC5B, GPCR GPRC5A, GPCR GPR87, GPCR GPR55, GPCR MRGX2, GPCR GPR81, GPCR GPR64, GPCR GPR20, GPCR GPRC5D
Proteases	ADAM17, ADAM9, ADAM28, ADAMTS1, MMP2, MMP9, MMP11, MMP13, MMP14, BACE1, FAP, Butyrylcholinesterase, Acetylcholinesterase, Mast Cell Tryptase, Cathepsin B, Factor D / CFD, Plasminogen Activator Inhibitor 1 / PAI1, Thrombopoietin, Factor XII / Hageman Factor, KLKB1 / Fletcher Factor
Receptors	IL-1R-1, IL-1R-2, IL-2RG, IL-5RA, IL-4R, IL-6R, IL-7R, IL-9R, IL-10RA, IL-11RA, IL-12RB1, IL-13RA1, IL-15RA, IL-17RA Receptor, IL-18R1, IL-20R1, IL-21R, IL-28RA, IL-31, TNFRSF14 / HVEM, TNFSF18 / GITRL, TNFSF15 / TL1A, TNF Receptor I, TNF Receptor II, IFNAR1, IFNAR2, IFNGR1

Please note that this table provides a concise overview, and proteins may have multiple functions or associations.

# Biosimilars

In the context of antibodies, biosimilars refer to therapeutic antibodies that are developed to be highly similar to an already approved monoclonal antibody (reference antibody). These reference antibodies are typically well-established, original biological drugs that have undergone extensive testing and received regulatory approval. Biosimilars are integral to research across multiple disciplines, including clinical research, pharmacoeconomics, immunogenicity studies, and global health.



## Importance of Biosimilar antibodies

Biosimilars play a crucial role in various aspects of research, offering both opportunities and challenges. Here are some key aspects highlighting the importance of biosimilars for research:

Aspect	Description
Access to Biologic Therapies	Biosimilars provide a more affordable alternative to expensive biologic therapies. This increased accessibility allows researchers to study and understand the effects of these therapeutic agents on a broader patient population.
Biosimilar Development and Optimization	The development of biosimilars involves extensive research in biotechnology, analytical sciences, and clinical studies. Researchers work to optimize production processes, formulation, and delivery methods to ensure that biosimilars meet regulatory requirements and demonstrate comparability with the reference product.
Immunogenicity Studies	Researchers investigate the immunogenicity of therapeutic agents, studying the potential for immune responses in patients. Understanding the immunogenicity profile is critical for ensuring the safety and efficacy of these biologic therapies.

Both academia and industry benefit from the diverse opportunities and resources that biosimilars bring to the field of biotechnology and drug development.



# Related Products

Currently, we have over **600 Biosimilars** in our catalogue. Kindly be aware that we are consistently expanding our selection of top-tier biosimilar products within our portfolio. We encourage you to visit our website for more products.

Main Category	Biosimilars
Immune System Modulators	<ul style="list-style-type: none"> <li>• Anti-CD166 Humanized Antibody [Praluzatamab Biosimilar]</li> <li>• Anti-CD79b Humanized Antibody [Polatuzumab Biosimilar]</li> <li>• Anti-CD74 Humanized Antibody [Milatuzumab Biosimilar]</li> <li>• Anti-CD70 Humanized Antibody [Chongqing Precision Biosimilar]</li> <li>• Anti-CD20 Humanized Antibody [Obinutuzumab Biosimilar]</li> <li>• Anti-CD45 Antibody [Apamistamab Biosimilar]</li> <li>• Anti-CD73 Humanized Antibody [Uliledlimab Biosimilar]</li> <li>• Anti-CD19 Antibody [FMC63 Biosimilar]</li> <li>• Anti-CD47 Humanized Antibody [Lemzoparlimab Biosimilar]</li> <li>• Anti-CD272 / BTLA Chimeric Antibody [Icatolimab Biosimilar]</li> <li>• Anti-CD134 / OX40L receptor Antibody [Ivuxolimab Biosimilar]</li> <li>• Anti-CD137 Antibody [Utomilumab Biosimilar]</li> <li>• Anti-CD127 Humanized Antibody [Lusvertikimab Biosimilar]</li> <li>• Anti-CD38 Antibody [Daratumumab Biosimilar]</li> <li>• Anti-CD22 Humanized Antibody [Pinatuzumab Biosimilar]</li> <li>• Anti-CD27 Antibody [Varlilumab Biosimilar]</li> <li>• Anti-CD276 Humanized Antibody [Enoblituzumab Biosimilar]</li> <li>• Anti-CD30 Chimeric Antibody [Brentuximab Biosimilar]</li> </ul>
Cytokines and Growth Factors	<ul style="list-style-type: none"> <li>• Anti-IL-23A Humanized Antibody [Guselkumab Biosimilar]</li> <li>• Anti-IL-9 Humanized Antibody [Enokizumab Biosimilar]</li> <li>• Anti-Interferon gamma Antibody [Emapalumab Biosimilar]</li> <li>• Anti-VEGF Receptor 1 Antibody [Icrucumab Biosimilar]</li> <li>• Anti-GM-CSF Humanized Antibody [Plonmarlimab Biosimilar]</li> <li>• Anti-IL-21 Humanized Antibody [Avizakimab Biosimilar]</li> <li>• Anti-IL-1 alpha Humanized Antibody [Bermekimab Biosimilar]</li> <li>• Anti-IL-17A Antibody [Secukinumab Biosimilar]</li> <li>• Anti-IL-22 Antibody [Fezakinumab Biosimilar]</li> <li>• Anti-IL-20 Antibody [Fletikumab Biosimilar]</li> <li>• Anti-IL-4R Antibody [Dupilumab Biosimilar]</li> <li>• Anti-IL-6 Chimeric Antibody [Siltuximab Biosimilar]</li> </ul>
Receptor Modulators	<ul style="list-style-type: none"> <li>• Anti-VEGF Receptor 2 Antibody [Ramucirumab Biosimilar]</li> <li>• Anti-ErbB3 / HER3 Antibody [Patritumab Biosimilar]</li> <li>• Anti-CCR2 Humanized Antibody [Plozalizumab Biosimilar]</li> <li>• Anti-CCR4 Humanized Antibody [Mogamulizumab Biosimilar]</li> <li>• Anti-CCR2 Humanized Antibody [Plozalizumab Biosimilar]</li> <li>• Anti-CCR4 Humanized Antibody [Mogamulizumab Biosimilar]</li> <li>• Anti-CCR2 Humanized Antibody [Plozalizumab Biosimilar]</li> <li>• Anti-CCR4 Humanized Antibody [Mogamulizumab Biosimilar]</li> <li>• Anti-NKG2A Humanized Antibody [Monalizumab Biosimilar]</li> <li>• Anti-GPCR GPRC5D Humanized Antibody [Talquetamab Biosimilar]</li> <li>• Anti-DLL3 Humanized Antibody [Rovalpituzumab Biosimilar]</li> <li>• Anti-ICOS Ligand / ICOSL Antibody [Prezalumab Biosimilar]</li> <li>• Anti-B7H4 Antibody [Aalsevalimab Biosimilar]</li> </ul>
Others	<p>Virus-related Targets, Tumor Markers, Neurological Markers and more</p>

# Immunoassays

Immunoassays are pivotal in biopharma R&D for biomarker discovery, drug development, and diagnostics. Their high sensitivity, specificity, and multiplexing capabilities enable precise measurements, supporting high-throughput screening. Additionally, immunoassays contribute to personalized medicine by identifying patient-specific biomarkers, aiding in regulatory compliance and ensuring reliable results.



## 90-Minute ELISA Technology

### Accelerating Discovery, Redefining Speed.

- **Swift Results:** 90-minute ELISA provides rapid and accurate outcomes, expediting decision-making.
- **High Throughput:** Accelerated ELISA enables the analysis of more samples, enhancing efficiency in large-scale testing.
- **Optimized Workflow:** Streamlined procedures reduce hands-on time, allowing researchers to focus on data analysis and interpretation.

Delve into a library of 4,300 products, each meticulously designed to uncover new facets of 3500 human protein targets.

The 90-minute ELISA technology is versatile for various targets, including infectious diseases, biomarkers, pharmaceuticals, cytokines, hormones, oncoproteins, environmental markers, food allergens, autoimmune markers, and neurotransmitters. Its rapid and efficient detection capabilities make it a valuable tool in research, diagnostics, and development.

	Antibodies.com	ThermoFisher	Bio-Techne	Abcam	Elabscience
Name	<b>90 min ELISA</b>	Instant ELISA	QickKit ELISA	SimpleStep ELISA	QuicKey Pro
Wash steps	<b>5x</b>	3x	3x	3x	5x
Process time	<b>90 mins</b>	180-250 mins	90 mins	90 mins	90 mins
Sample volume	<b>40 µL</b>	100 µl	50 µl	50 µl	50 µl
Number of products	<b>4,346</b>	58	695	1,411	85

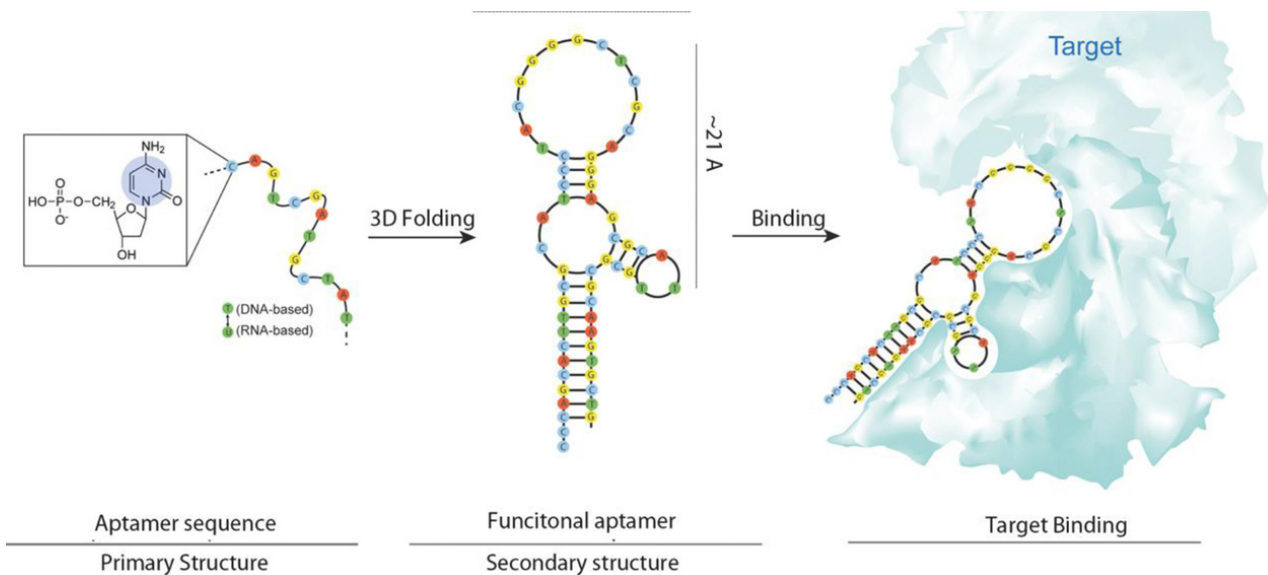
# Common Products

Currently, we have over **3400 ELISAs (90-min)** in our catalogue. Kindly be aware that we are consistently expanding our selection of top-tier biosimilar products within our portfolio. We encourage you to visit our website for more products.

Cat No	Product Name	Reactivity	Product range	Sensitivity	Sample type
A310640	Mouse alpha 1 Fetoprotein ELISA Kit	Mouse	0.075–1.2 ng/ml	0.0025 ng/ml	Serum, plasma or other biological fluids.
A313507	Human Cystatin C ELISA Kit	Human	0.15–2.4 mg/dl	0.02 mg/dl	Serum, plasma or other biological fluids.
A310332	Human DPP4 ELISA Kit	Human	0.15–2.4 U/L	0.022 U/L	Serum, plasma or other biological fluids.
A312300	Human Apolipoprotein B ELISA Kit	Human	0.2–3.2 mg/ml	0.01 mg/ml	Serum, plasma or other biological fluids.
A311872	Human TNF alpha ELISA Kit	Human	0.3–4.8 µg/ml	0.01 µg/ml	Serum, plasma or other biological fluids.
A310379	Mouse Gli1 ELISA Kit	Mouse	0.3–4.8 ng/ml	0.016 ng/ml	Serum, plasma or other biological fluids.
A311669	Human TRAF5 ELISA Kit	Human	0.3–4.8 ng/ml	0.011 ng/ml	Serum, plasma or other biological fluids.
A312085	Mouse Wnt7a ELISA Kit	Mouse	0.3–4.8 ng/ml	0.012 ng/ml	Serum, plasma or other biological fluids.
A312326	Human Cytokeratin 16 / K16 ELISA Kit	Human	0.3–4.8 ng/ml	0.023 ng/ml	Serum, plasma or other biological fluids.
A312350	Human Heme Oxygenase 1 ELISA Kit	Human	0.3–4.8 ng/ml	0.05 ng/ml	Serum, plasma or other biological fluids.
A313124	Human HBP ELISA Kit	Human	0.3–4.8 ng/ml	0.01 ng/ml	Serum, plasma or other biological fluids.
A314006	Human LPO ELISA Kit	Human	0.3–4.8 ng/ml	0.023 ng/ml	Serum, plasma or other biological fluids.
A312540	Human GCC185 ELISA Kit	Human	0.45–7.2 ng/ml	0.024 ng/ml	Serum, plasma or other biological fluids.
A314001	Mouse C Reactive Protein ELISA Kit	Mouse	0.4–6.4 mg/L	0.021 mg/L	Serum, plasma or other biological fluids.
A310055	Human Complement C5 ELISA Kit	Human	0.4–6.4 mg/ml	0.021 mg/ml	Serum, plasma or other biological fluids.
A311900	Human Dystrophin ELISA Kit	Human	0.4–6.4 mg/ml	0.029 mg/ml	Serum, plasma or other biological fluids.
A310063	Human SCGB2A1 ELISA Kit	Human	0.4–6.4 ng/ml	0.024 ng/ml	Serum, plasma or other biological fluids.
A310223	Mouse Notch1 ELISA Kit	Mouse	0.4–6.4 ng/ml	0.022 ng/ml	Serum, plasma or other biological fluids.
A310224	Human DCHS1 ELISA Kit	Human	0.4–6.4 ng/ml	0.022 ng/ml	Serum, plasma or other biological fluids.
A310230	Human CPT1A ELISA Kit	Human	0.4–6.4 ng/mL	0.05 ng/ml	Serum, plasma or other biological fluids.
A310235	Human LUZP1 ELISA Kit	Human	0.4–6.4 ng/ml	0.013 ng/ml	Serum, plasma or other biological fluids.
A310241	Mouse IGF1 ELISA Kit	Mouse	0.4–6.4 ng/ml	0.01 ng/ml	Serum, plasma or other biological fluids.
A310298	Human SYT11 ELISA Kit	Human	0.4–6.4 ng/ml	0.022 ng/ml	Serum, plasma or other biological fluids.
A310300	Human AKT2 ELISA Kit	Human	0.4–6.4 ng/ml	0.027 ng/ml	Serum, plasma or other biological fluids.
A310328	Human NAV2 ELISA Kit	Human	0.4–6.4 ng/ml	0.017 ng/ml	Serum, plasma or other biological fluids.
A310329	Human TPPP3 ELISA Kit	Human	0.4–6.4 ng/ml	0.017 ng/ml	Serum, plasma or other biological fluids.
A310331	Human AKR1B10 ELISA Kit	Human	0.4–6.4 ng/ml	0.021 ng/ml	Serum, plasma or other biological fluids.
A310405	Human MT3 ELISA Kit	Human	0.4–6.4 ng/ml	0.023 ng/ml	Serum, plasma or other biological fluids.
A310478	Human Syntaxin 7 ELISA Kit	Human	0.4–6.4 ng/ml	0.019 ng/ml	Serum, plasma or other biological fluids.
A310512	Mouse Nmur1 ELISA Kit	Mouse	0.4–6.4 ng/ml	0.018 ng/ml	Serum, plasma or other biological fluids.
A310513	Human ORP1 ELISA Kit	Human	0.4–6.4 ng/ml	0.021 ng/ml	Serum, plasma or other biological fluids.
A310642	Human Urocortin ELISA Kit	Human	0.4–6.4 ng/ml	0.01 ng/ml	Serum, plasma or other biological fluids.
A310644	Human SYNGR4 ELISA Kit	Human	0.4–6.4 ng/ml	0.021 ng/ml	Serum, plasma or other biological fluids.
A310893	Human 5HT2A Receptor ELISA Kit	Human	0.4–6.4 ng/ml	0.019 ng/ml	Serum, plasma or other biological fluids.
A310895	Human eIF-6 ELISA Kit	Human	0.4–6.4 ng/ml	0.021 ng/ml	Serum, plasma or other biological fluids.
A310907	Human LY75 / DEC-205 ELISA Kit	Human	0.4–6.4 ng/ml	0.03 ng/ml	Serum, plasma or other biological fluids.
A311006	Human Glypican 3 ELISA Kit	Human	0.4–6.4 ng/ml	0.01 ng/ml	Serum, plasma or other biological fluids.

# Aptamers

Aptamers, considered synthetic binders, are single-stranded DNA molecules selected through SELEX processes. Known for high specificity and rapid development, these molecules bind specifically to various targets. Aptamers, with their synthetic nature, are gaining traction in applications like diagnostics and therapeutics as versatile alternatives to traditional binding molecules.



## In comparison to traditional antibodies

	Aptamers	Antibodies
<b>Ease of Synthesis</b>	Chemically synthesized	Produced in living systems (animals or cells)
<b>Size and Structure</b>	Smaller size, better tissue penetration	Larger and more complex
<b>Thermal Stability</b>	Higher thermal stability	More sensitivity to temperature changes
<b>Ease of Modification</b>	Easily modified or engineered	Modification is more complex and may involve genetic engineering
<b>Cost-Effectiveness</b>	Generally more cost-effective and scalable	Can be more expensive and time-consuming
<b>Specificity and Affinity</b>	High specificity and affinity	High specificity and affinity, sometimes surpassed by aptamers

**Note:** The information in the table provides a general overview and may vary based on specific aptamers or antibodies, as well as the intended application.

# Related Products

Currently, we have over **400 DNA Aptamers** in our catalogue. Kindly be aware that we are consistently expanding our selection of top-tier aptamer products within our portfolio. We encourage you to visit our website for more products.

Category	Number of Products	Examples
Nucleic Acid	185	Huizenga ATP-Binding
Hematology	36	Thrombin
Infectiology	40	SARS-CoV-2
Cardiovascular	8	Anti-VEGF165
Toxin	30	Ricin Toxin (C5)
Enzyme	16	Peroxidase DNAzyme
Cell-Specific	10	PC12 Cells
Metabolite Sensing	5	Adenosine/ATP (DH25.42)
Cancer	19	Anti-Glioblastoma Cells (GBM128)
Immunoglobulin	4	Anti Anterior Gradient Homolog 2
RNA	7	HIV-1 Reverse Transcriptase Aptamer
Biosensor	10	Aptamer Beacon
Hormone	8	Insulin
Antibiotic	6	Ampicillin (AMP17)
Metal Ion Detection	4	Lead (Pb)
Malaria	3	1501s malaria
Neurological Disorder	2	$\alpha$ -Synuclein Oligomers (T-S0508)
Other	93	-

Please note that this table provides a concise overview, and aptamers may have multiple functions or associations.

# Custom Services

Our custom services are designed to cater specifically to your unique needs. From consulting to software development and tailored research projects, we work closely with you to deliver personalized solutions. Our approach blends expertise, innovation, and flexibility, ensuring that our services align seamlessly with your goals. With a commitment to quality and client satisfaction, we provide the adaptability and precision required to meet your distinct needs and achieve optimal outcomes.



Expertise	Description	Timescale	Estimated Costs
<b>Peptides</b>	Design, synthesis, and characterization of peptides for diverse applications, including pre-clinical phases	2-4 months	\$5,000 - \$15,000
<b>Proteins</b>	Design, synthesis, and characterization of, with specialization in transmembrane proteins and enzymes; includes purification and analysis.	4-6 months	\$5,000 - \$30,000
<b>Assay Development</b>	Creation and optimization of robust assays for precise and reproducible analysis of biomolecules.	2-6 months	\$20,000 - \$45,000
<b>Antibody Engineering</b>	Modification of antibodies to enhance specificity, affinity, and therapeutic potential for targeted immunotherapies.	6-9 months	\$30,000 - \$60,000
<b>Antibody Conjugation</b>	Conjugation of antibodies with various molecules for expanded functionality in diagnostics, imaging, and drug delivery.	4-8 months	\$25,000 - \$55,000
<b>Nanodisc Development</b>	Design and fabrication of nanodiscs to provide stable environments for studying membrane proteins in-depth.	6-10 months	\$40,000 - \$80,000
<b>Aptamer/ Generation</b>	Generation of aptamers as alternative molecular recognition tools for diagnostics and targeted therapeutics.	3-6 months	\$20,000 - \$45,000

Note: Timescales and costs are presented at a more accelerated level and are subject to project-specific details and requirements.

