



Biological Drug R&D Ask Sanyou Bio

SANYOU

Protein Preparation and Reagent Product All-inclusive Package

1

Diverse Rapid
Protein Preparation

3

Highly Challenging
Protein Products
Biosimilar Drugs
Core Reagent Solutions

1

Customized
Protein
Preparation

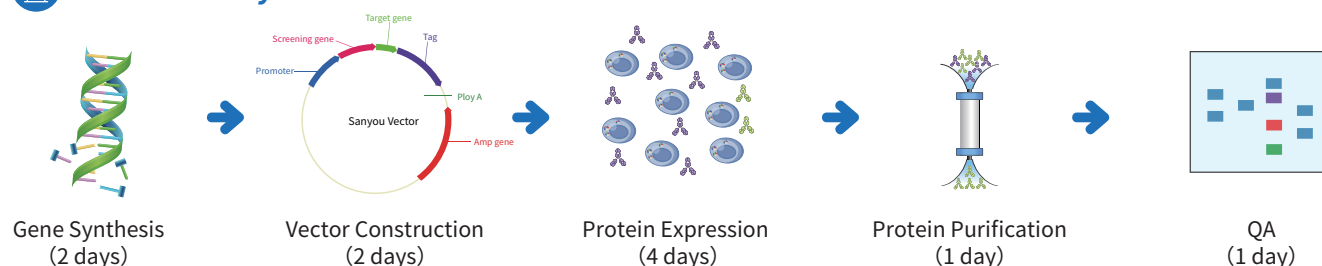
X

Off-the- Shelf
Cell Line Products

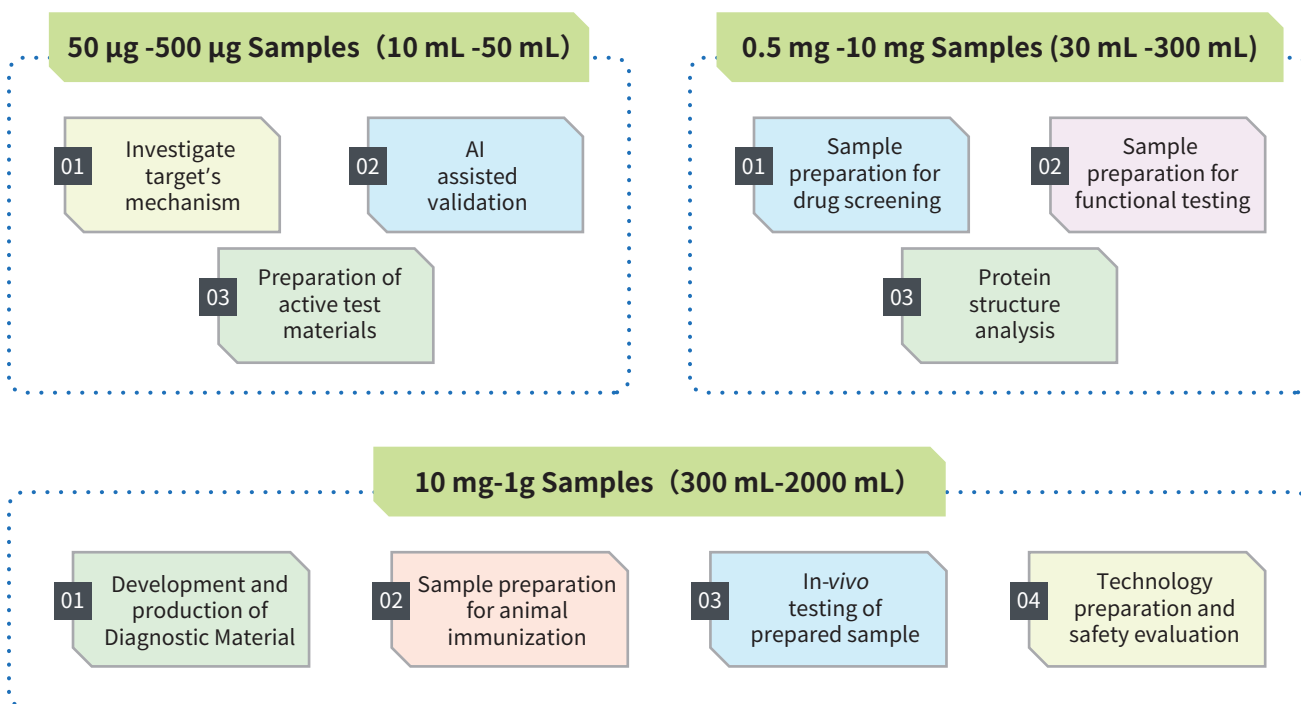
Diverse Rapid Protein Preparation

Sanyou Bio protein preparation platform, refined over 8 years, has established a eukaryotic rapid protein production platform. This platform offers the flexibility to combine different host cells, expression volumes, protein quantities, purification methods, and QA techniques according to specific requirements. It is adaptable to various scenarios, catering to a diverse customer needs for rapid protein production.

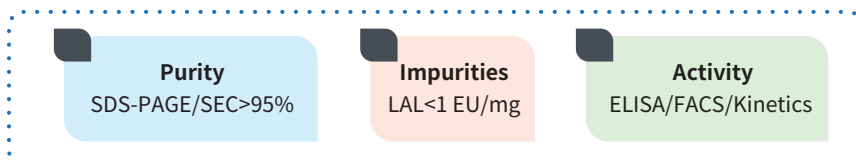
In Just 10 days



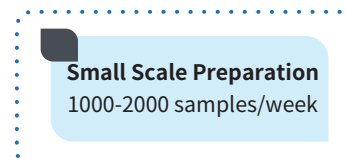
Complete Specifications



Comprehensive Quality Inspection



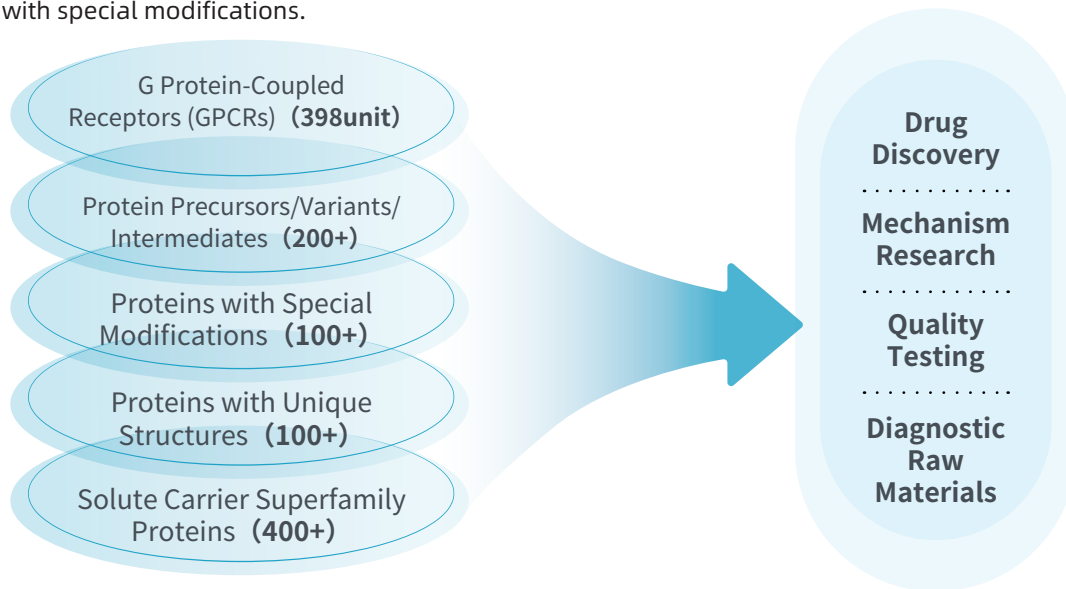
Stable High-throughput





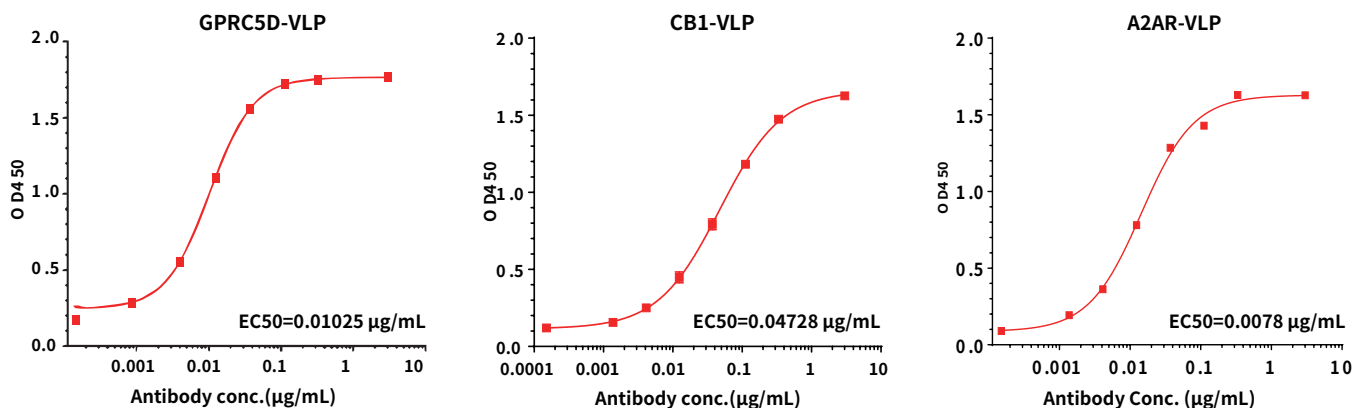
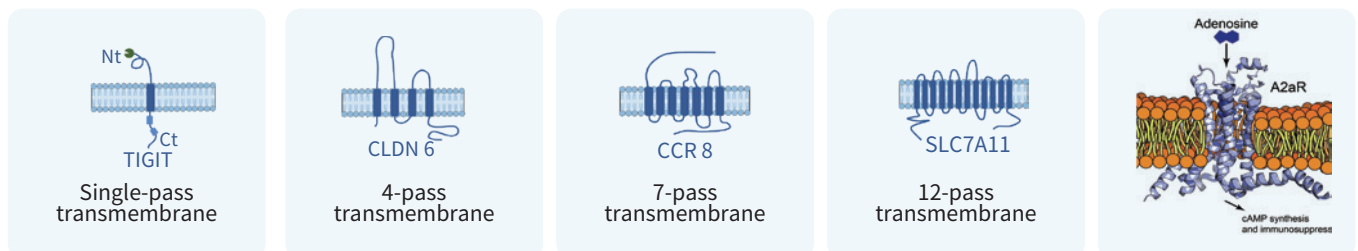
Highly Challenging Protein Products

Sanyou Bio provides services for preparing highly challenging protein products, including G-protein coupled receptors (GPCRs), solute carrier superfamily proteins, protein variants/intermediates, proteins with unique structures, and proteins with special modifications.



Case Studies

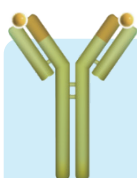
GPCRs are a major transmembrane protein family in mammalian genomes. They are found in various organs including the central nervous system, immune system, cardiovascular system, and retina. Their unique seven-transmembrane structure and ligand interactions contribute significantly to signal transduction, molecular transport, and energy utilization. GPCRs play a pivotal role in regulating body functions and maintaining homeostasis.



Reference Drug Products

Sanyou Bio can provide experimentally validated biological drug reference standards, including monoclonal reference antibodies, multi-specific reference antibodies, reference antibody-drug conjugates (ADC), and reference Fc fusion proteins. These products are applicable for project development, mechanism research, and functional validation within the field of biopharmaceutical research. They play a vital role in advancing the biopharmaceutical research and development

Product Category



Monoclonal Reference Antibodies

1000+ products with all clinical stages

Example:

- Atezolizumab (PD-L1)
- Pembrolizumab (PD-1)
- Nivolumab (PD-1)
- Trastuzumab (HER2)
- Talquetamab (GPRC5D)

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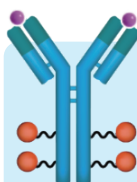
Multi-specific Reference Antibodies

200+ products with 20+ structural design

Example:

- Blinatumomab (CD3&CD19)
- Glofitamab (CD3&CD20)
- Cadonilimab (PD-1&CTLA4)
- Amivantamab (EGFR&cMet)
- TG-1801 (CD19&CD47)

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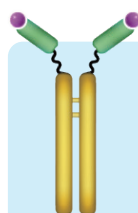
Reference Antibody-drug Conjugates

50+ products with 10+ toxin

Example:

- Sacituzumab govitecan (TROP2)
- Trastuzumab deruxtecan (HER2)
- Telisotuzumab vedotin (c-Met)
- Disitamab vedotin (HER2)
- Mirvetuximab soravtansine (FRA)

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Reference Fc Fusion Proteins

10+ most renovated products

Example:

- GLP-1
- SIRPα
- IL2
- 4-1BB
- TGF-β

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Product Advantage



Stock
Reserved



Complete
categories



Quality
Assured



Customi-
zation

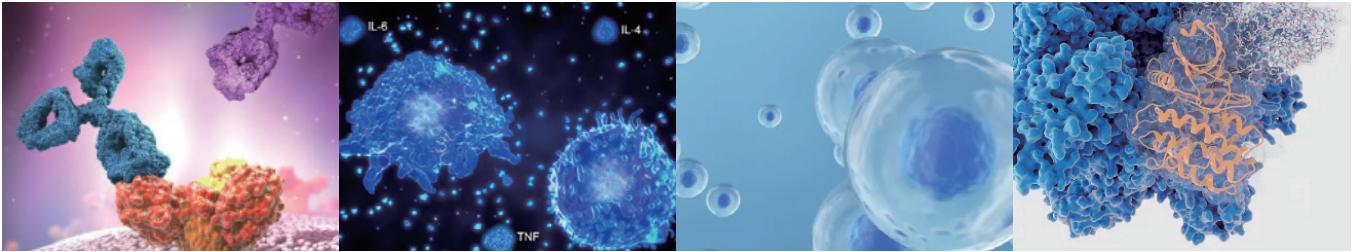
All products are intended for scientific research purpose only and are not intended for direct human application. They should not be used for medical, therapeutic, or edible purposes.



Core Reagent Products



Product Categories: Diverse Range of Products Empowering Biological Research



**Flow Cytometry
Antibodies**

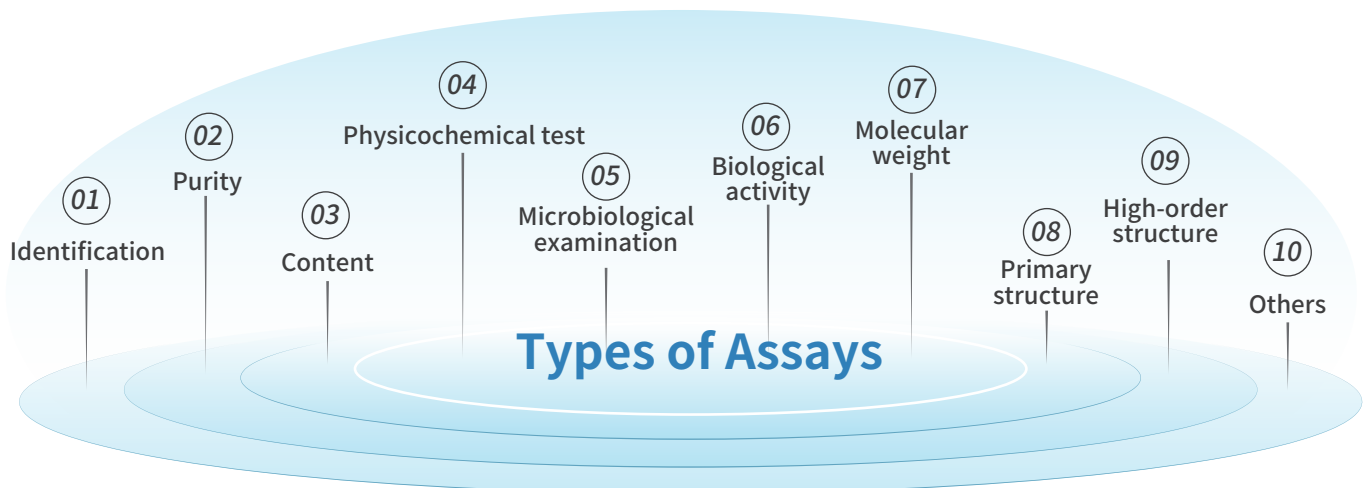
Cytokines

**Functional
Validation Cells**

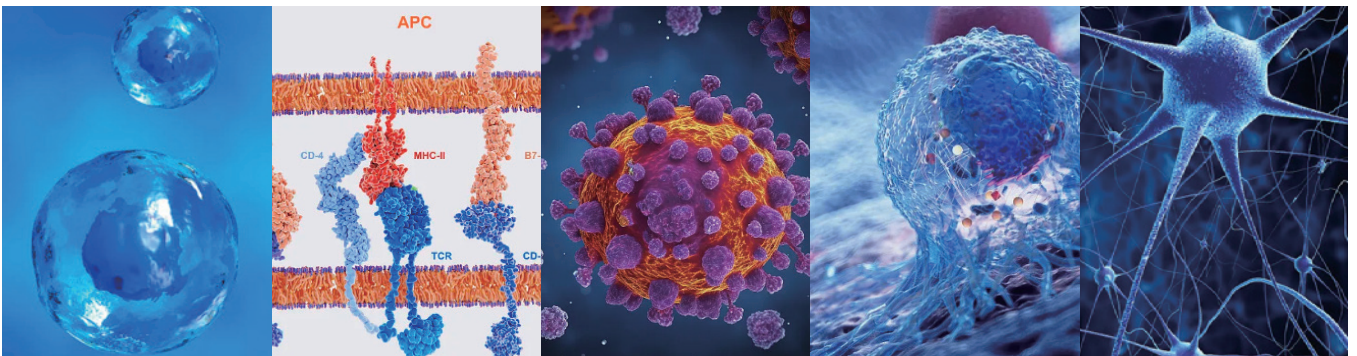
**Functional
Proteins**



Quality System: Multidimensional Quality Control, Safeguarding Drug Development



Others



Stem Cells

Immunology





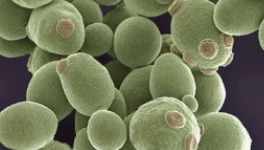
Infectious Disease

Cancer

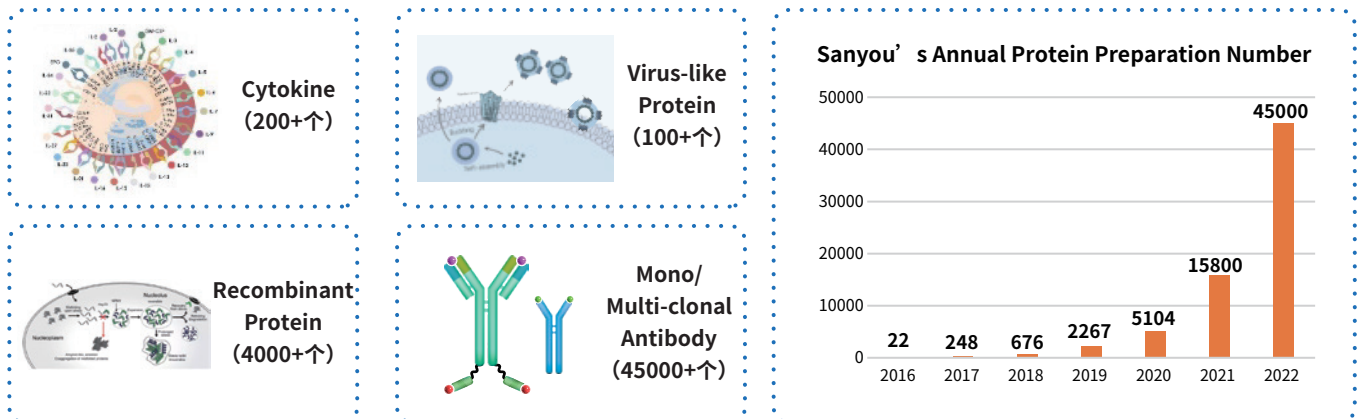
Neurology

Customized Protein Preparation

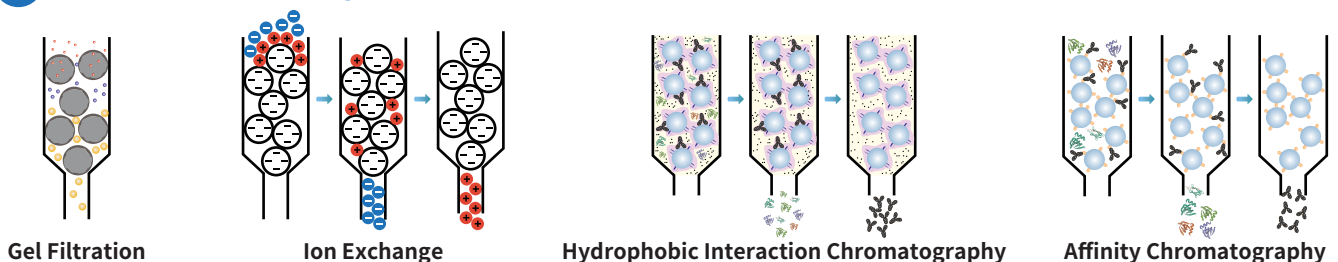
Sanyou Bio protein preparation platform accommodates a wide range of protein types from diverse sources including proteins with varying complexities. Our platform utilizes five major expression systems to comprehensively cover all classic expression systems. With our extensive purification processes and robust quality control, we are fully equipped to meet our customers' protein customization needs.

| CHO Eukaryotic Expression System | HEK293 Eukaryotic Expression System | Insect Cell Expression System | Prokaryotic Expression System | Yeast Expression System |
|--|---|--|---|--|
|  |  |  |  |  |
| Target activity validation Antibody screening control Animal efficacy, PK and toxicology Diagnostic materials | Target activity validation Animal immunization Antibody screening Diagnostic materials | Complex modified protein preparation Viral protein preparation Plant protein preparation | High-difficulty cytokine preparation High-difficulty viral protein preparation Non-secreted protein preparation | Fast growth rate Relatively low cost Post-translational protein processing Soluble recombinant proteins |

Protein Types and Preparation Expertise



Purification Techniques



Catalog-style Cell Line Products

Sanyou Bio provides off-the-shelf overexpression cell lines, as well as services for pre-designed products and personalized services.

Promotion : 450 USD per cell line. (Limited to 5 cell lines per organization)



Available In-stock

Plasmid

3000+
Human
Membrane
Protein Plasmid

1500+
Monkey
Membrane
Protein Plasmid

Cell Line

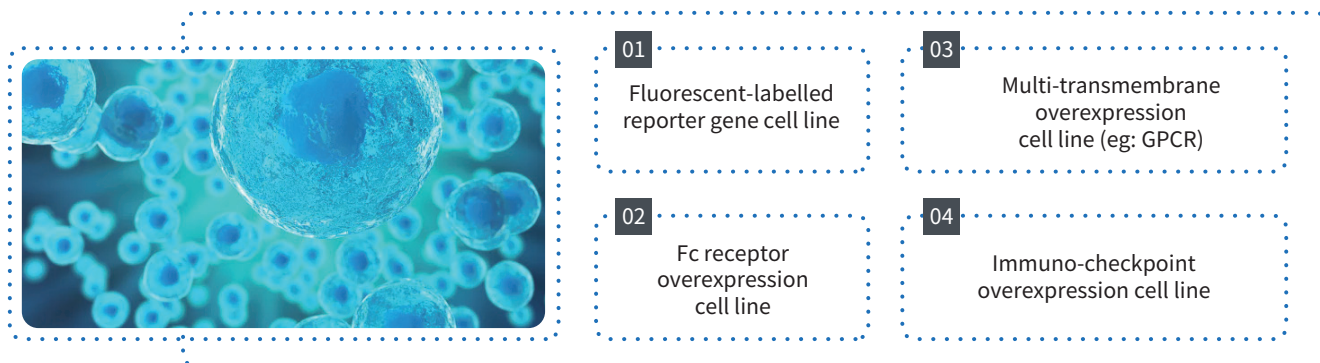
300+
CHO
Overexpression
Cell Line

400+
HEK293
Overexpression
Cell Line

400+
Tumor
Overexpression
Cell Line



Category of Cell Line



01

Cell Choice

HEK293, CHO, Jurkat,
MC38, THP-1, U937,
LLC, Raji, AGS, NIH3T3,
SNU16, etc

02

Transfection Method

Lentiviral infection
Electroporation
Chemical reagent transfection

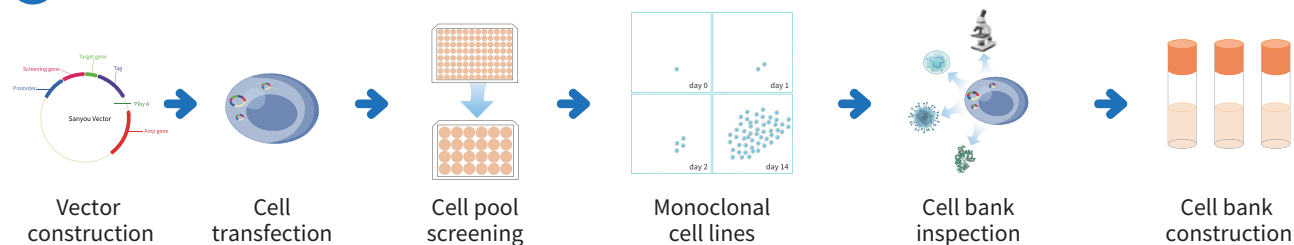
03

Screening systems

Puromycin
Hygromycin
G418
MSX (GS system)

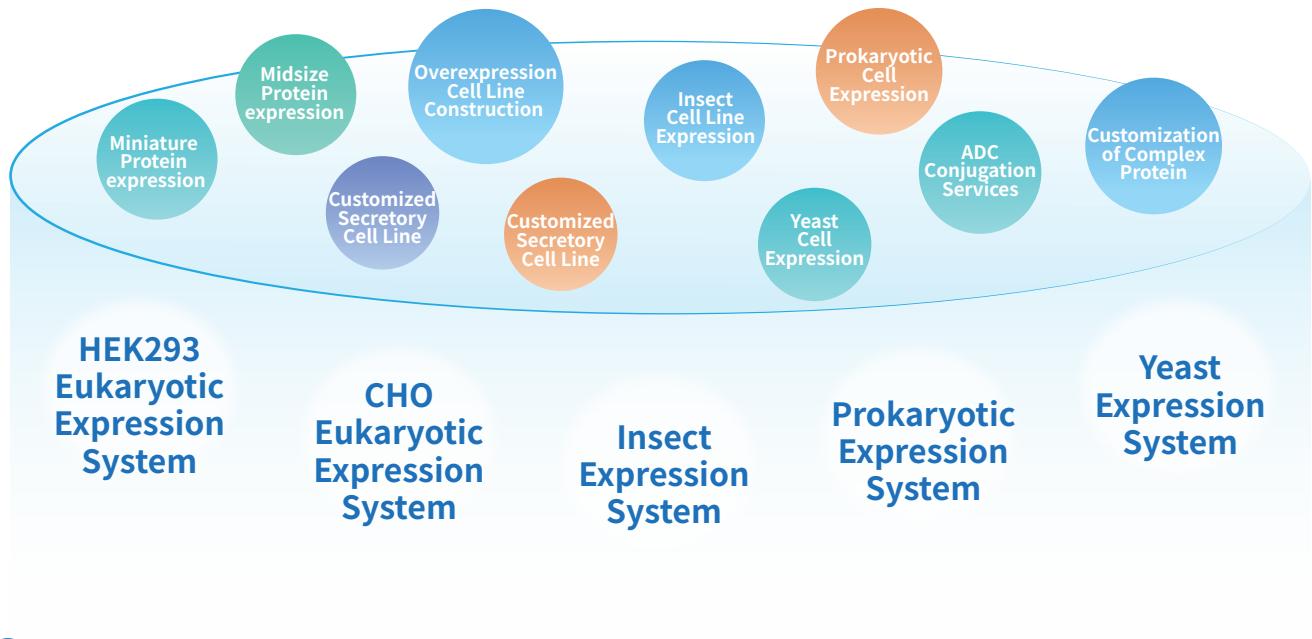


Technical Workflow

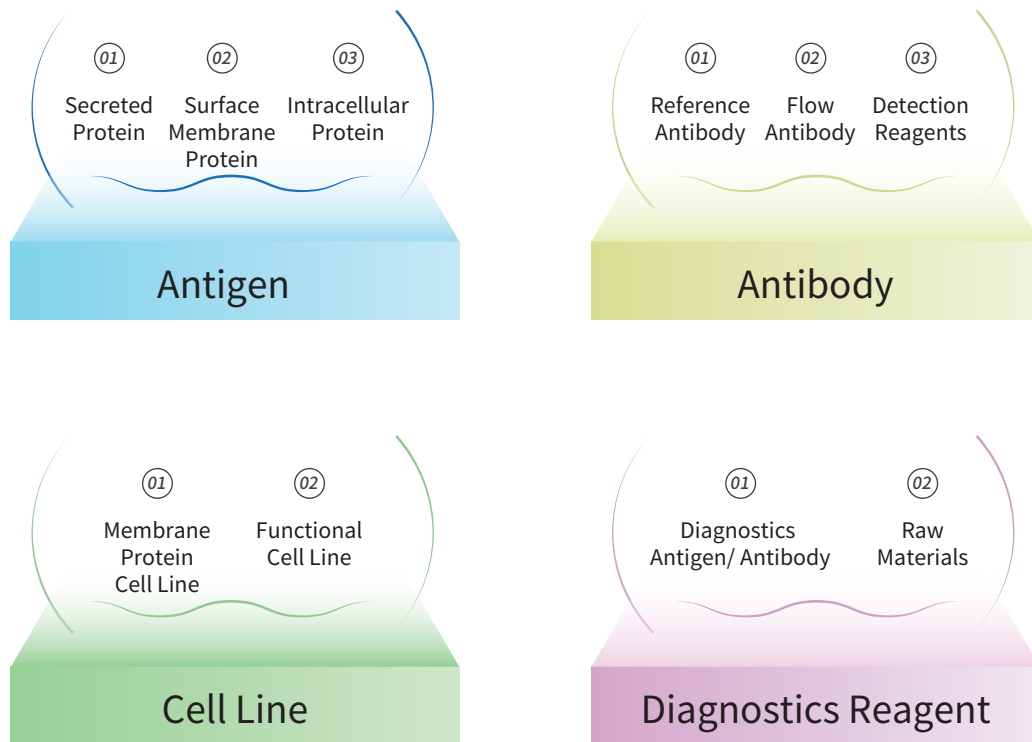


Sanyou Protein Package at a Glance

Protein Customization

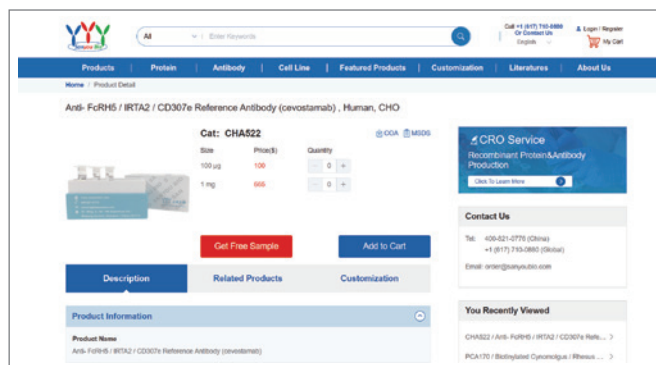
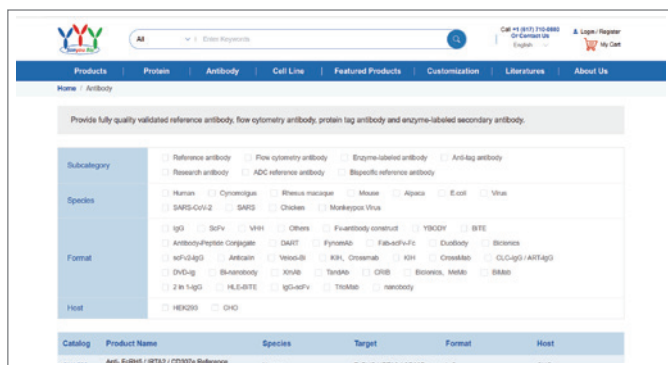


CRS Products



CRS Products Website

The CRS website includes four major categories of products: proteins, antibodies, cell lines, and diagnostics reagents.
<https://crs.sanyoubio.com/>



Global Sites

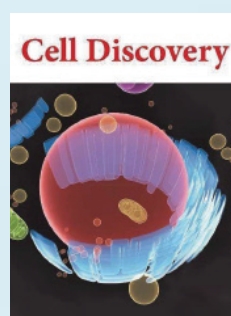
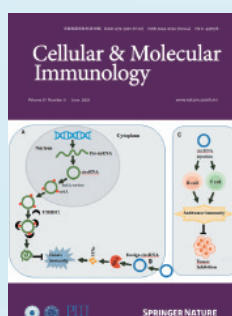
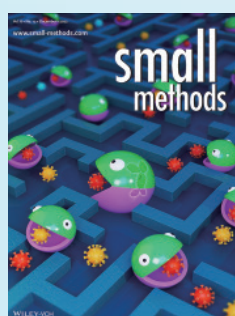
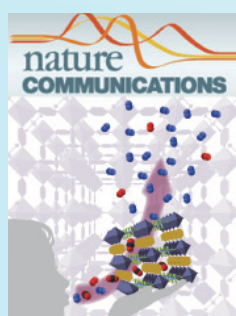
Sanyou Biopharmaceuticals has successively established office locations in China, Shanghai, USA (Boston, San Diego, Philadelphia), UK, London, and Netherlands, Rotterdam.



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Scientific research achievements

Sanyou has facilitated customers in publishing high-impact research articles, contributing to nearly 50 publications, including top-tier journals like Cell, Nature and Science.



Representative examples of published papers

- [01] Hastie K M, Li H, Bedinger D, et al. Defining variant-resistant epitopes targeted by SARS-CoV-2 antibodies: A global consortium study [J]. Science, 2021, 374(6566): 472-478.**IF: 47.728**
- [02] Hu W, Zhang Y, Fei P, et al. Mechanical activation of spike fosters SARS-CoV-2 viral infection[J]. Cell research, 2021, 31(10): 1047-1060.**IF: 25.617**
- [03] Yao H, Sun Y, Deng Y Q, et al. Rational development of a human antibody cocktail that deploys multiple functions to confer Pan-SARS-CoVs protection[J]. Cell research, 2021, 31(1): 25-36.**IF: 25.617**
- [04] Yu Y, Li J, Solomon S A, et al. All-printed soft human-machine interface for robotic physicochemical sensing[J]. Science robotics, 2022, 7(67): eabn0495.**IF: 23.748**
- [05] Yang Y, Peng Y, Lin C, et al. Human ACE2-functionalized gold “virus-trap” nanostructures for accurate capture of SARS-CoV-2 and single-virus SERS detection[J]. Nano-micro letters, 2021, 13: 1-13.**IF: 16.419**
- [06] Torrente-Rodríguez R M, Lukas H, Tu J, et al. SARS-CoV-2 RapidPlex: a graphene-based multiplexed telemedicine platform for rapid and low-cost COVID-19 diagnosis and monitoring[J]. Matter, 2020, 3(6): 1981-1998.**IF: 15.589**
- [07] Jiang H, Li Y, Zhang H, et al. SARS-CoV-2 proteome microarray for global profiling of COVID-19 specific IgG and IgM responses[J]. Nature communications, 2020, 11(1): 3581.**IF: 14.919**
- [08] Wu Y, Cui Z, Huang Y H, et al. Towards a generic prototyping approach for therapeutically-relevant peptides and proteins in a cell-free translation system[J]. Nature Communications, 2022, 13(1): 260.**IF: 14.919**
- [09] Chi H, Wang L, Liu C, et al. An Engineered IgG-VHH Bispecific Antibody against SARS - CoV - 2 and Its Variants[J]. Small Methods, 2022, 6(12): 2200932.**IF: 14.188**
- [10] Yi C, Sun X, Ye J, et al. Key residues of the receptor binding motif in the spike protein of SARS-CoV-2 that interact with ACE2 and neutralizing antibodies[J]. Cellular & molecular immunology, 2020, 17(6): 621-630.**IF: 11.53**

THREE CORE TECHNOLOGY PLATFORMS



ST-AL based molecule generation



Integrated drug discovery



AI drug screening

COMPREHENSIVE LAYOUT OF FOUR BUSINESS MODELS



PCC integrated service

Antibody generation

Antibody engineering

Pharmacodynamics



IND integrated service

Cell line / Process



Technology transfer

Collaborative R&D



Protein customization

Antibody products

Protein products

Diagnostic materials

MULTIDIMENSIONAL SYSTEMIC SOLUTIONS



Drug R&D



Core reagent



Scientific innovation



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