



Creative BioMart

Your Expert in Protein Products

Email: contact@creative-biomart.com

Website: www.creativebiomart.net

More than **10,000** recombinant protein products

Advanced protein-related **CRO** services

Customized **pharmaceutical** solutions

Scientific expertise

Reliable supplier as well as **academic partner**

Worldwide network of distributors

What We Offer?

Recombinant Proteins

Native Proteins

GMP-Grade Proteins

Therapeutic Proteins

Diagnostic Proteins

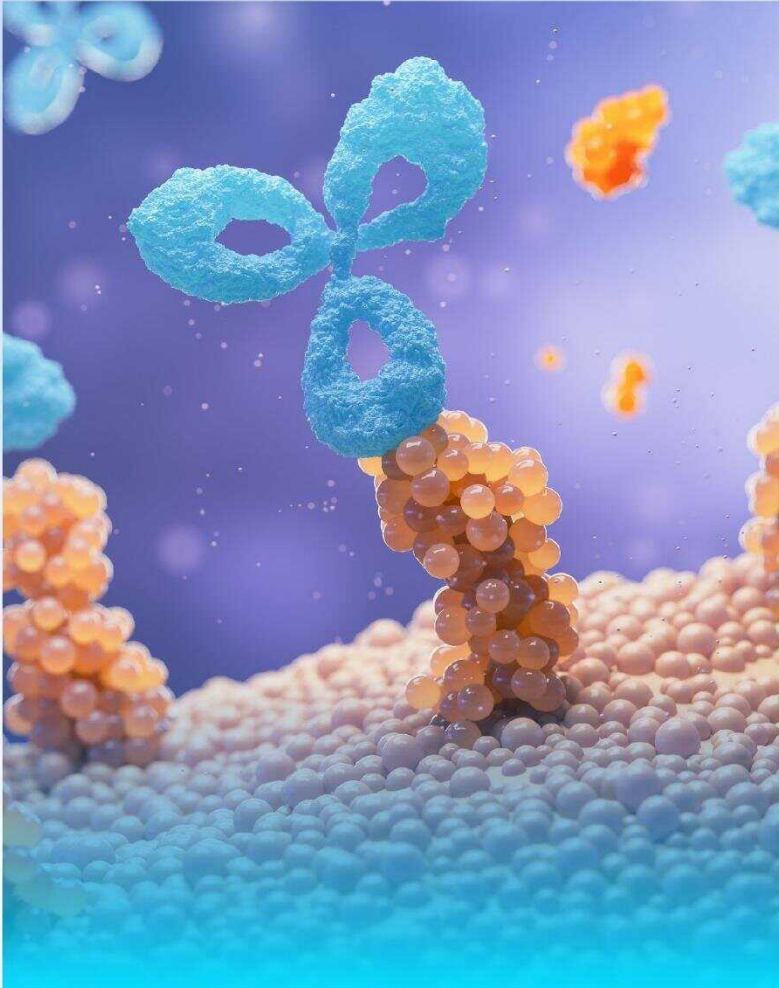
Protein-Related Assay Kits

Chromatography Reagents

Other Specialized Products

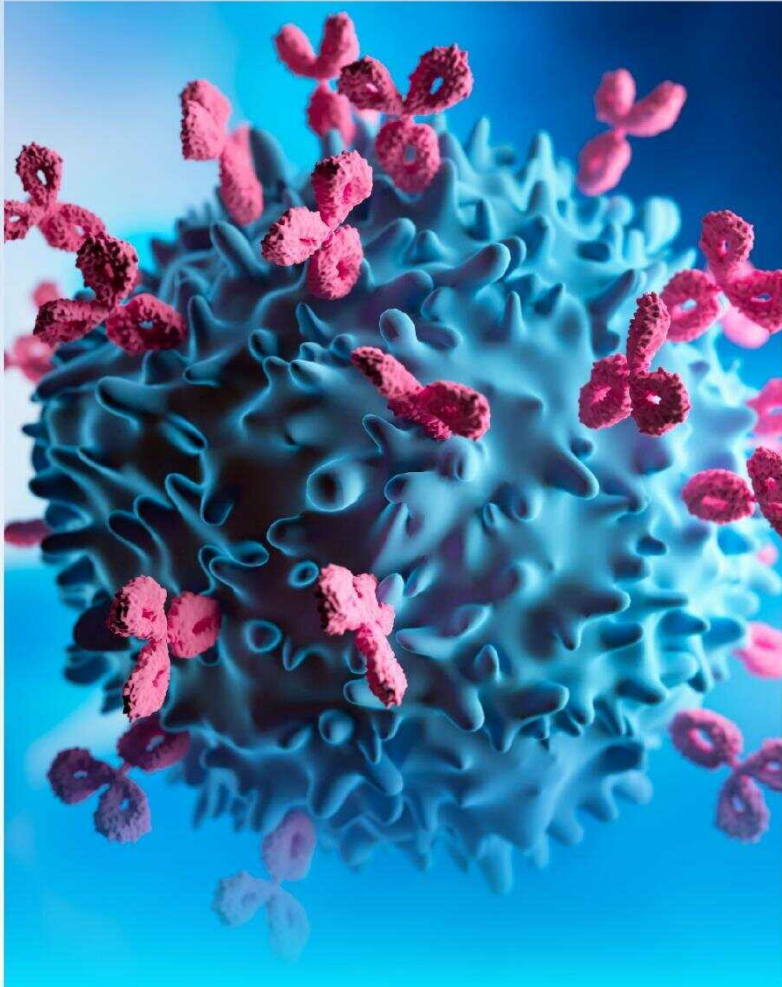


Recombinant Proteins



- Over **10,000** Recombinant Protein Products
- Multiple expression systems: Mammalian cells, Baculovirus-insect cells, Yeast, E. coli, Cell-free systems, etc.
- Wide species selection: Human, Mouse, Rat, Rhesus Macaque, Cynomolgus Monkey, Porcine, Bovine, Equine, Chicken, Zebrafish, etc.
- Activity confirmation: Each batch is quality-controlled and activity-tested.
- Fast turnaround: Efficient production and logistics ensure quick delivery.

Recombinant Proteins



- **> 8,000** products in stock
- **> 20,000** genes ready-to-express
- Full length and fragment
- Flexible custom production service
- Scale production capacity

Flexible Custom Service

Species	Human, Mouse, Rat, Rhesus Macaque, Cynomolgus Monkey, Porcine, Bovine, Equine, Chicken, Zebra Fish, etc.
Expression systems	Mammalian Cells, Baculovirus-insect Cells, Yeast, E.Coli, Cell-free, etc.
Tag options	His, Fc, GST, Flag, Myc, SUMO, Strep, Tag-removal, etc.
Form	Liquid, Lyophilized Powder
Custom buffer	Tris, PBS, Carrier-free, Acetic Acid Buffer, Ammonium Acetate Buffer, etc.
Labeling	Biotin, R-PE, APC, FITC, Cy3, Cy5, Cy7, etc.
Endotoxin removal	0.1-10 EU/mg by LAL Test
Purification	Affinity Chromatography, Ion Exchange Chromatography, SEC, HIC, etc.

Capacity & Regulation Qualification



Research grade

- High purity
- µg, mg, grams
- Low endotoxin level
- High bioactivity

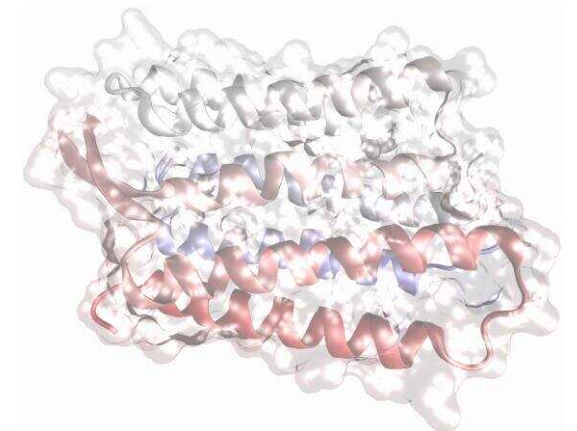


Pharmaceutical and industrial

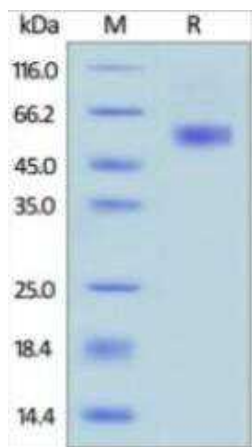
- DMF filing experience
- REACH
- GMP facility
- Up to KG

Examples of Recombinant Protein Products

Product Name	Species	Expression System	Tag	Application
Recombinant Human CD28 Protein	Human	Mammalian Cells	His-tag	Immunological Research, Drug Development
Recombinant Mouse Cd226 Protein	Mouse	E. coli	C-His Tag	Immunomodulation Research
Recombinant Rat Cd70 Protein	Rat	Insect Cells	N-His Tag	Tumor Immunology Research

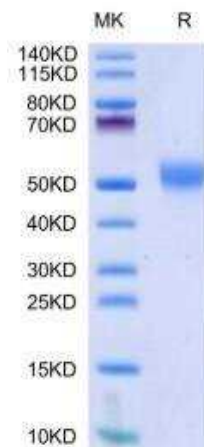


Quality Guarantee



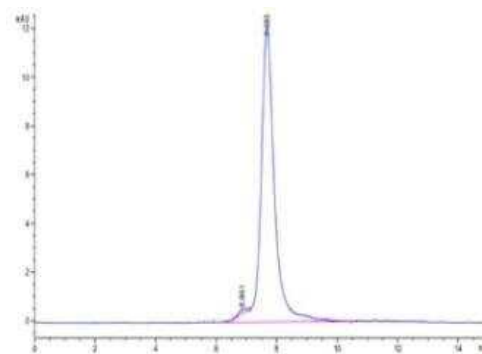
SDS-PAGE

Cat.No.: CD79B-239H



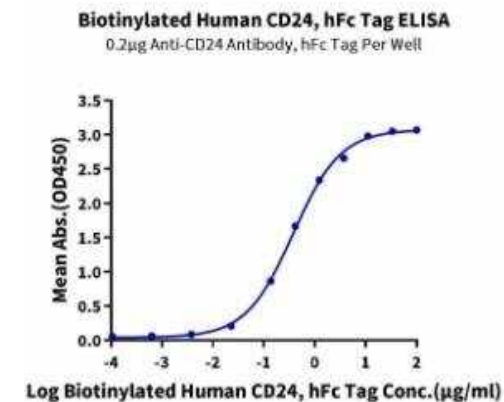
Tris-Bis PAGE

Cat.No.: CD24-1721H



SEC-HPLC

Cat.No.: CDH17-1426M

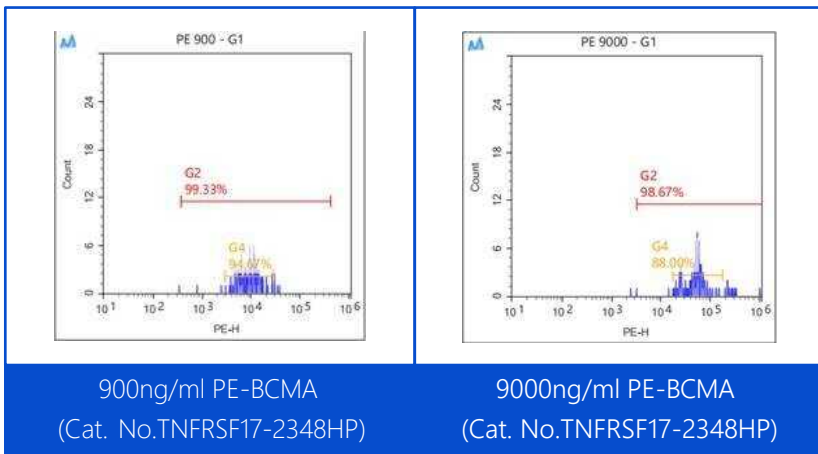
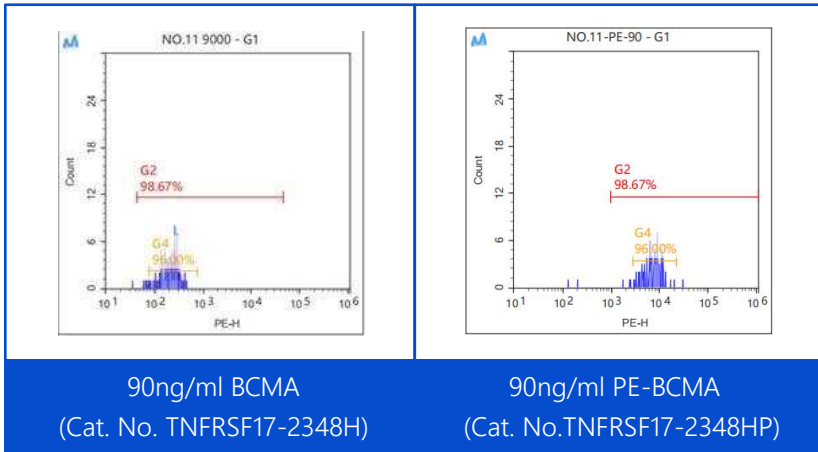


ELISA

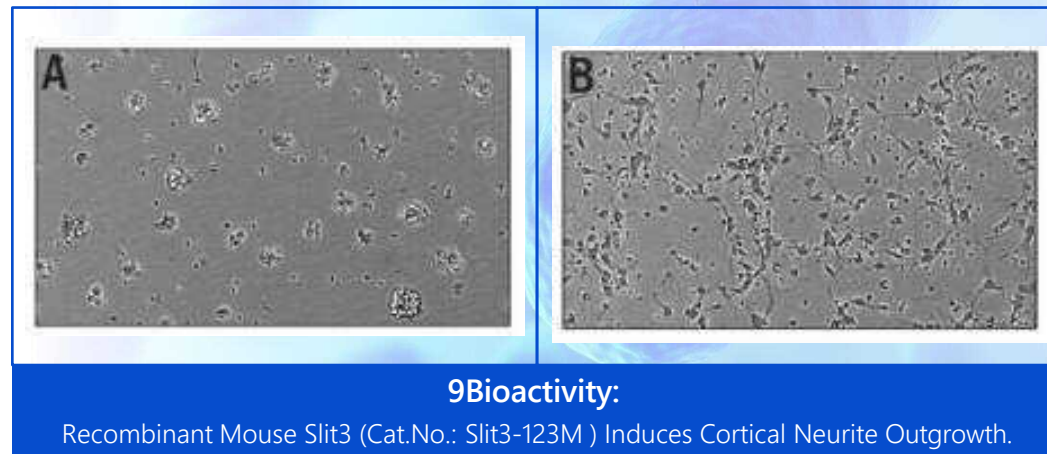
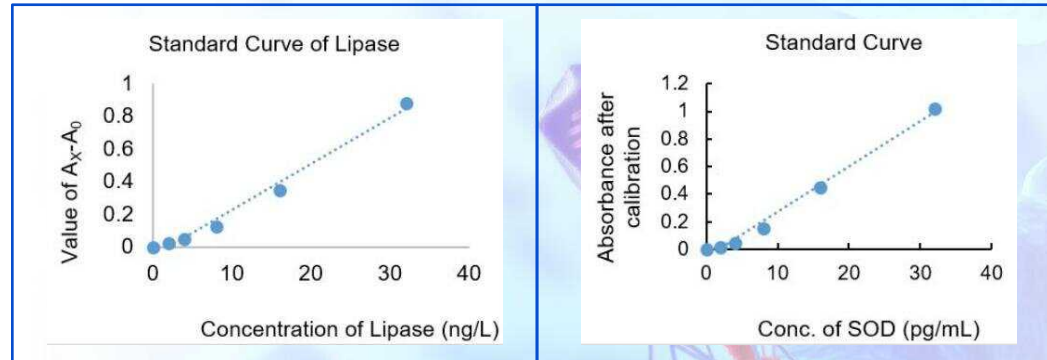
Cat.No.: CD24-1721H

Quality Guarantee

Bioactivity-FACS



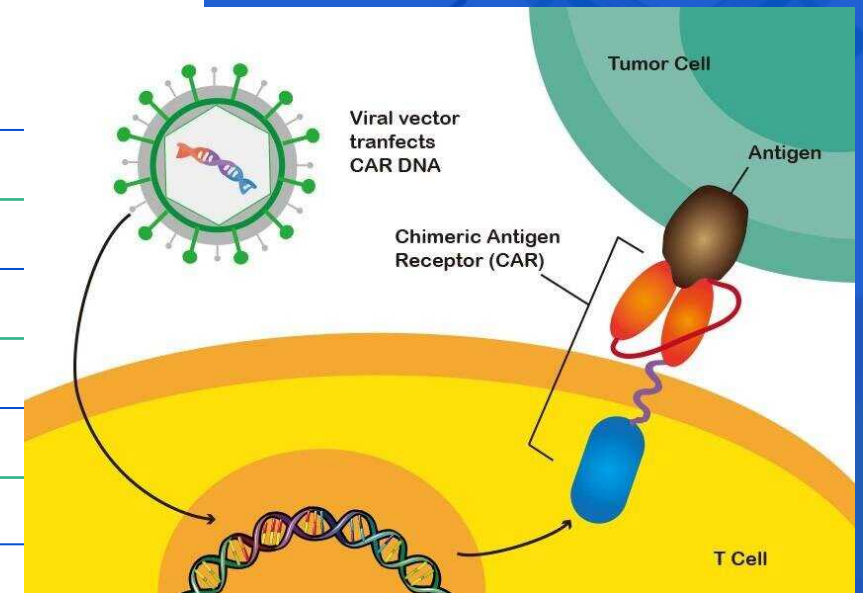
Enzyme Activity



Targets of CAR T-Cell Therapy

To satisfy the fast growing need in CAR-T development, Creative BioMart has prepared a variety of antigen proteins to provide a large selection of ready-to-use options.

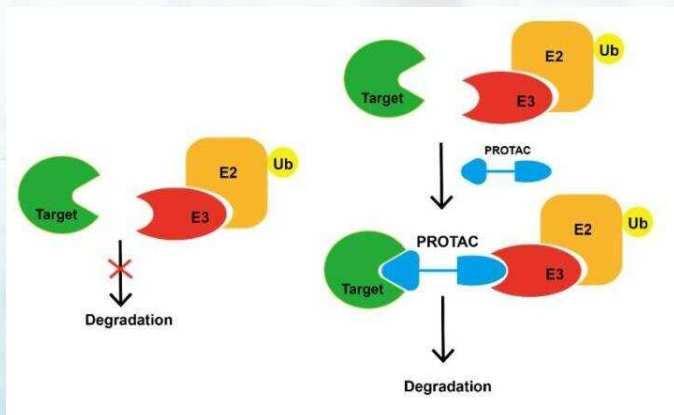
TNFRSF17	TNFRSF8	CD5	ULBP1	CEACAM5	CD276	CD276
IL3RA	MS4A1	CD33	NCAM1	ULBP2	MET	MET
SDC1	CD22	CD38	CD70	RAP	EGFR	EGFR
EGFRvIII	EPCAM	EPHA2	ERBB2	GPC3	MSLN	MSLN
MUC1	PDCD1	CD274	KDR	IL13RA2	FOLH1	FOLH1
FAP	CA9	FOLR1	L1CAM	ROR1	CD23	CD23
CD44	CD174	SLAMF7	GD2	PDCD1	ROR2	ROR2



Creative BioMart also offers a variety of pre-fluorescent-conjugated and pre-biotinylated CAR T therapy related proteins.

PROTAC Targets & E3 Ligases

BRD4	HSP70/HSPA1A	alpha-Synuclein	HECTD3	FBXW7	HUWE1	RNF126	C-Cbl
HSP10/EPF	HSP90 alpha	Tau	NEDD4	SKP2	WWP1	BCA2	CHIP
HSP40/DNAJB1	Miro1/Rhot1	TDP-43/TARDBP	RBX1	APC/C	RNF138	TRIM25	VHL
HSP60	PINK1	Viral HPV E6	CUL1	Parkin	UFM1	FBXO38	TRAF6



ADC Targets

Target antigens overexpressed in cancer cells

Target antigens in the tumor vasculature

GPNMB	Guanylyl cyclase C	(EDB) Fibronectin, extra-domain B
NCAM1	SLC44A4	Endothelium receptor ETB
TACSTD2	PSMA	PSMA
Folate receptor alpha	LIV1/ZIP6	VEGFR2
Tissue factor	SLITRK6	Tissue factor
ENPP3	EpCAM	ROBO4
CD70	BCMA	Target antigens in the tumor stroma
P-cadherin	TROP2	Collagen IV
Mesothelin	AXL	Periostin
STEAP1	HER3	Tenascin c
CEACAM5	CD166	Driver oncogenes
Mucin 1	5T4	HER2
Nectin 4		EGFR

Other Functional Proteins

Organoid Culture Cytokines



Immune Checkpoint Proteins



Protein Kinases



Monkeypox Virus-related Proteins



Biomarker



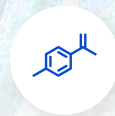
SARS-CoV-2 Proteins



CD Antigen



Cell and Gene Therapy





Native Proteins



High-Quality Native Proteins



Sourced from multiple species:

Human, Mouse, Rat, Porcine, Bovine, Chicken, etc.



High purity and bioactivity:

Ensure reliability in various experiments.






Broad applications:

Basic research, Drug screening, Diagnostic reagent development, etc.

GMP-Grade Proteins



-  Manufactured according to Good Manufacturing Practice (GMP) to ensure product quality and safety.
-  Batch-to-batch consistency and high quality: Strict quality control system.
-  Free of animal-derived components: Avoid potential biohazards.

Examples of GMP-Grade Proteins

Product Name	Species	Expression System	Application
Human FGF9	Human	Mammalian Cells	Cell Therapy, Regenerative Medicine
rHuman BDNF	Human	Mammalian Cells	Neuroscience Research, Drug Development
Human BMP2	Human	Mammalian Cells	Bone Repair, Tissue Engineering

Best-selling product

Human FGF9	rHuman BDNF	Human BMP2	Human BMP4	rHuman BMP7
rHuman CD40LG	rHuman CSF2	rHuman CTLA4	rHuman EGF	rHuman FGF2
rHuman GDF11	rHuman IFNG	rHuman IL10	rHuman IL12	rHuman IL2
rHuman IL5	rHuman IL6	rHuman INHBA	rHuman NOG	uman NRG1
rHuman PDGFB	rHuman TGFB1	rHuman TNF	rHuman VEGFA	rHuman WNT3A

Therapeutic Proteins



Proteins used for therapeutic purposes, crucial in modern medicine for disease treatment.



Our Product Range

Include recombinant therapeutic proteins, fusion proteins, etc.



Key Features

High purity and bioactivity.
Manufactured under strict quality control.
Suitable for various therapeutic applications.



Applications

Enzyme replacement therapy, immunotherapy, hormone therapy, etc.

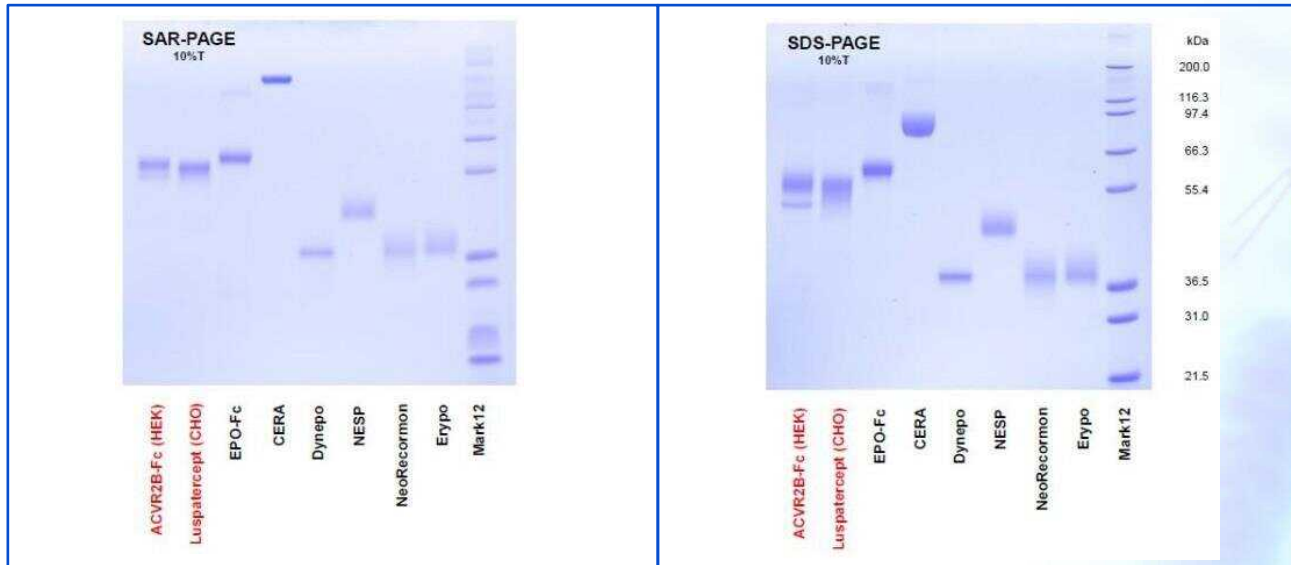


Advantages

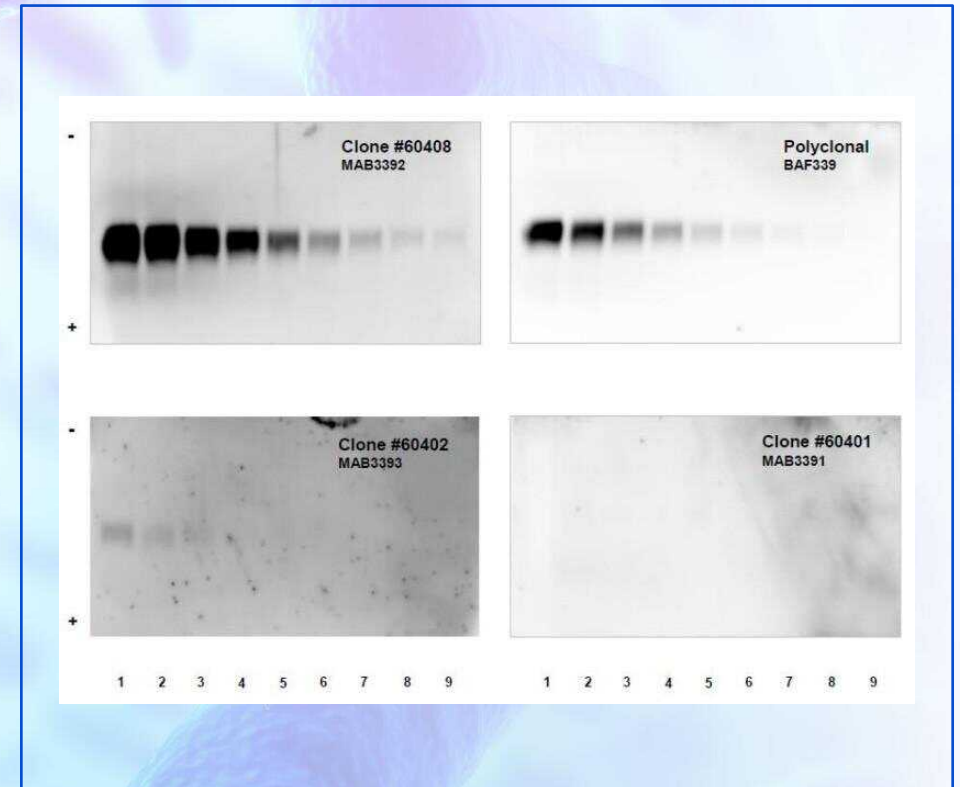
High efficacy, targeted treatment, minimal side effects.



Examples of Therapeutic Proteins



Comparison of **Luspatercept (Cat.No.: ACVR2B-P014H)** and HEK293-expressed ACVR2B-Fc with erythropoietin-based ESAs on SAR- and SDS-PAGE.



Sensitivity evaluation of four ACVR2B-antibodies for the detection of **Luspatercept (Cat.No.: ACVR2B-P014H)** on Western blots.

Diagnostic Proteins



Protein Products for In Vitro Diagnostics



Various allergens and viral antigens: Meet different diagnostic needs.



High purity and specificity: Ensure accuracy of test results.

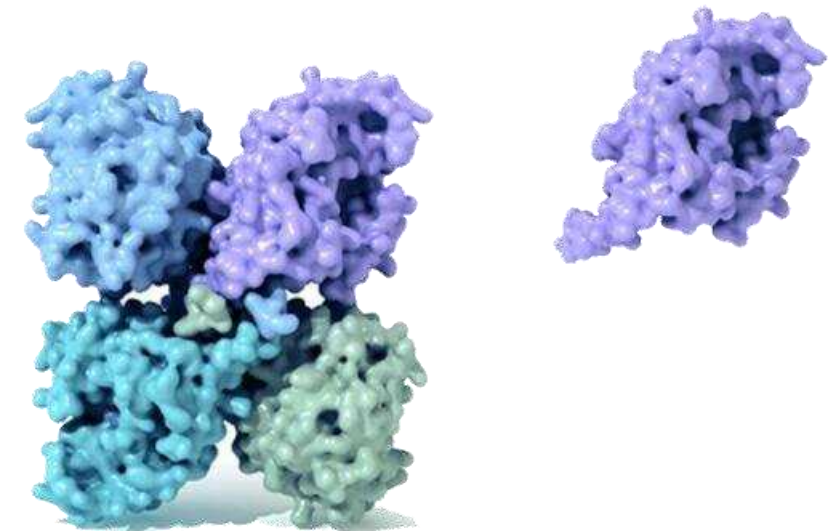
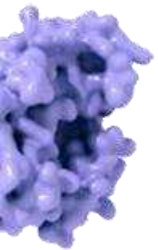


Large-scale production and stable supply: Support mass production of diagnostic reagents.

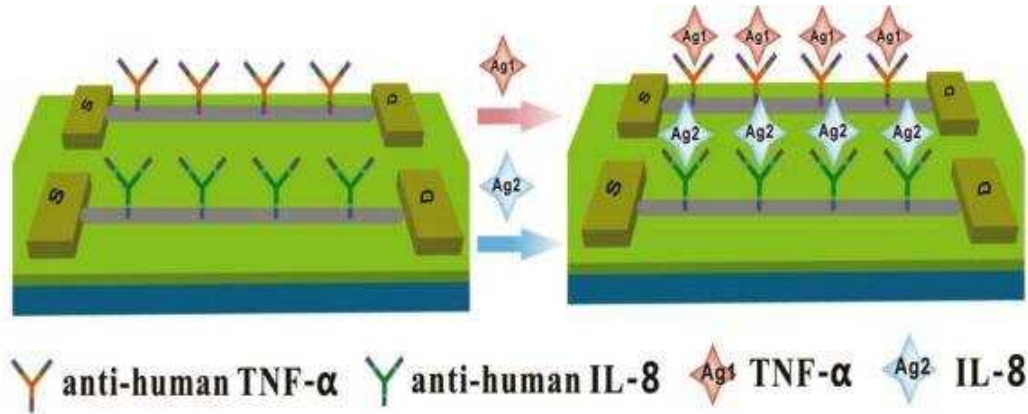


Examples of Diagnostic Proteins

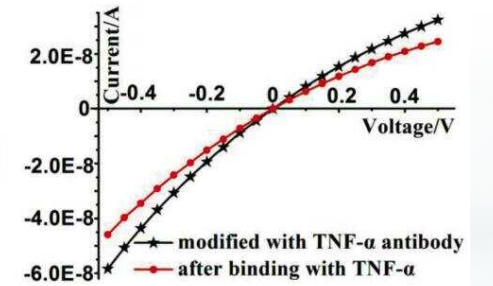
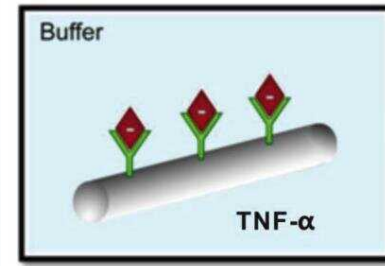
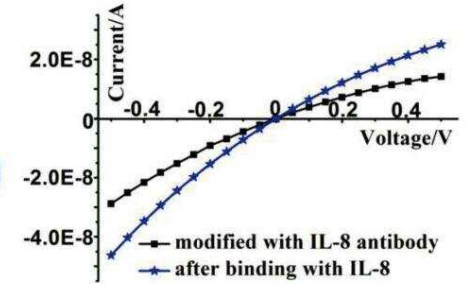
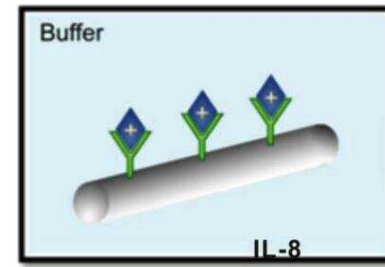
Cat. No.	Product Name
AMH-101H	Recombinant Human AMH Protein (IVD grade)
E2-107H	Human E2, BSA Labeled (IVD grade)
RCAP-132H	Recombinant Human RCAP Protein (IVD grade)
RSV A-135R	Recombinant RSV A Protein (IVD grade)
CAGE-103H	Recombinant Human CAGE Protein (IVD grade)
G-17-109H	Synthetic G-17 Antigen (IVD grade)
SEPSECS-136H	Recombinant Human SEPSECS Protein (IVD grade)
DSG1-106H	Recombinant Human DSG1 Protein (IVD grade)
TRIM33-146H	Recombinant Human TRIM33 Protein (IVD grade)
ERBB2-108H	Recombinant Human ERBB2 Protein (IVD grade)
PCT-125H	Recombinant Human PCT Protein (IVD grade)
TSHD7A-148H	Recombinant Human TSHD7A Protein (IVD grade)



Examples of Diagnostic Proteins



Schematic Diagram illustrating that the SiNW arrays are functionalized with two antibodies and two biomarkers (Cat.No.: IL8-104H, Cat.No.: TNF-154H) are applied to the SiNW array surface.



Typical working I-V curves before and after IL-8 (Cat.No.: IL8-104H) and TNF-α (Cat.No.: TNF-154H) were bound to the corresponding antibodies immobilized on the different SiNW sensor surfaces.

Protein-Related Assay Kits

Comprehensive Protein-Related Assay Kits

Activity detection kits

Test protein activity and function.

Cell detection kits

Cell proliferation, apoptosis, etc.

Epigenetics kits

DNA methylation, histone modification, etc.

High sensitivity and accuracy

Ensure reliability of experimental results.



Chromatography Reagents

Efficient Chromatography Reagents



Affinity chromatography reagents:

Purify and separate proteins.



Ion exchange chromatography reagents:

Separate proteins based on charge differences.



Gel filtration chromatography reagents

Separate proteins based on molecular size.



Improve experimental efficiency and result accuracy.

Other Specialized Products

01

Fluorescent labeled proteins:

For cell imaging and localization studies.



02

Protein-coupled magnetic beads:

For rapid protein separation and enrichment.



03

Full-length proteins:

Maintain the natural structure and function of proteins.



04

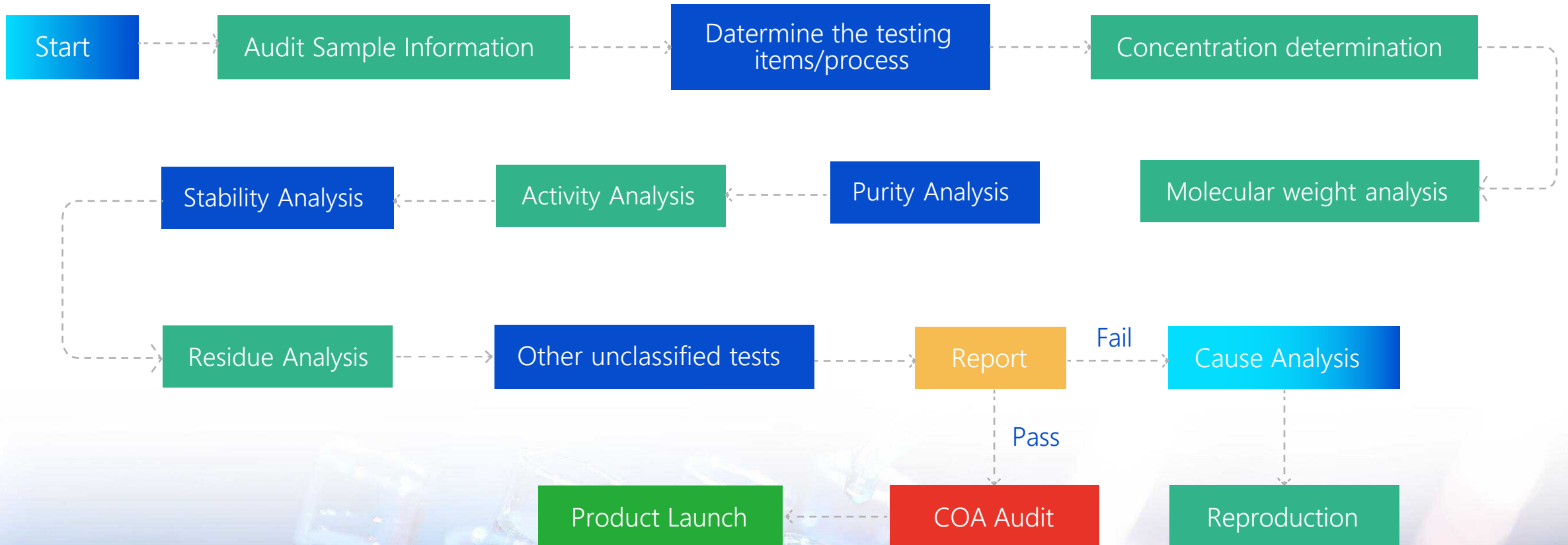
Transmembrane Proteins



Quality Management Systems



Quality Management Systems



Market Advantages



Extensive product range

Meet the needs of different customers.



High-quality standards

Ensure product reliability and consistency.



Global distribution network

Over 100 distributors in 49 countries.



Table of Services

Protein Expression and Purification Services

- Protein Analysis Services
- Biopharmaceutical Solutions
- Food and Health Testing Services
- Other Services



Protein Expression and Purification Services

Comprehensive Protein Expression and Purification

Multiple expression systems: Bacterial, Mammalian, Baculovirus-insect cells, Yeast, Cell-free, etc.

Endotoxin-free protein production: Ensuring high purity and safety.

Refolding of recombinant proteins: From inclusion bodies for functional proteins.



Protein Expression and Purification Services

- Bacterial expression systems
- Mammalian expression systems
- Baculovirus-insect cell expression systems
- Yeast expression systems
- Cell-free in vitro protein expression system
- Animal-free expression systems
- Fucose-free protein expression system

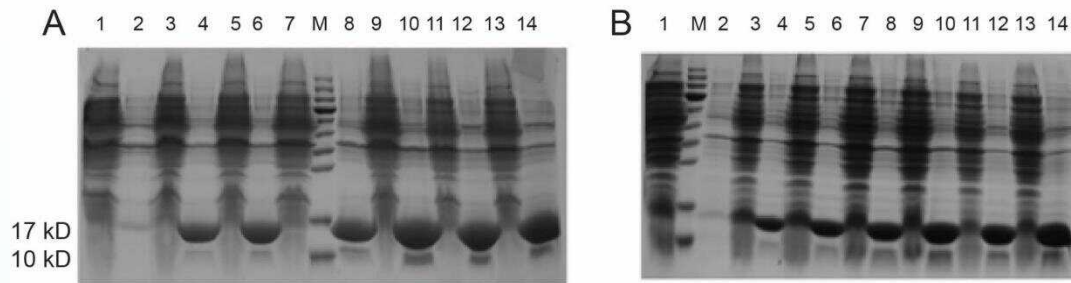
- Mass standard protein production
- High-throughput protein production
- Large-scale protein production
- High yield protein production
- Human synthetic proteins produced in mammalian cell lines

- Serum-free expression system
- Endotoxin-free protein production
- Renaturation of recombinant proteins from inclusion bodies

- Fc fusion protein production
- Sumo-tag protein production
- Albumin fusion protein production service

Examples of Protein Expression and Purification Services

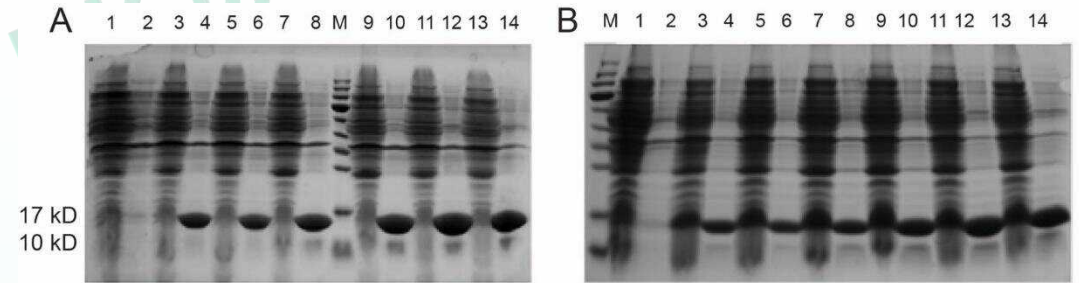
Outcomes



SDS-PAGE analysis of construct 5-BL21 protein expression.

A. lysis buffer (pH 8.5); B. lysis buffer (pH 4.5).

"neg" denotes negative control; "0.5/1.0" denotes the final concentration of IPTG; "S/P" denotes supernatant and precipitate, respectively.



SDS-PAGE analysis of construct 5-Rosetta protein expression

A. lysis buffer (pH 8.5); B. lysis buffer (pH 4.5).

"neg" denotes negative control; "0.5/1.0" denotes the final concentration of IPTG; "S/P" denotes supernatant and precipitate, respectively.

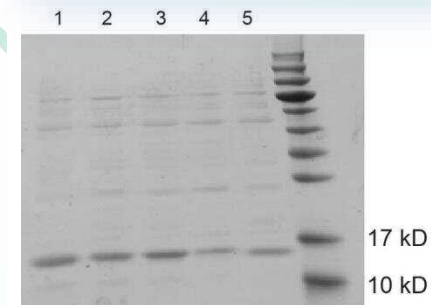
Examples of Protein Expression and Purification Services

SDS-PAGE analysis of purification of inclusion body proteins



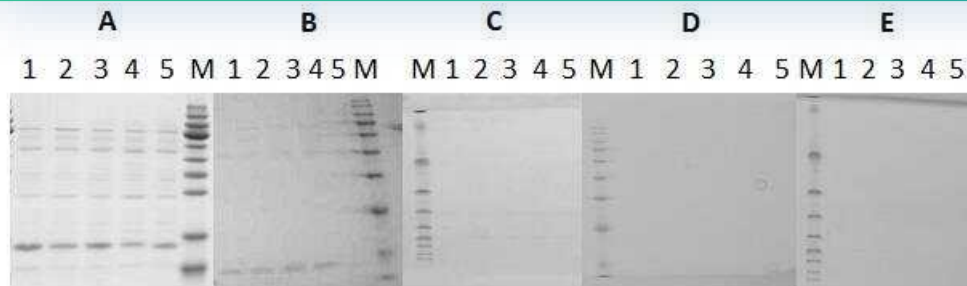
“1-5-Rosetta” denotes construct 1-5 Rosetta expression protein; “P, F and E” denotes the pre-column fractions, Flow-through fractions and elution fractions, respectively.

SDS-PAGE analysis of dialyzed protein



“1-5-Rosetta” denotes construct 1-5 Rosetta expression protein

SDS-PAGE analysis of protein stability in PBS buffer, pH 8.5.



Lane M: Marker; Lane 1: Construct 1; Lane 2: Construct 2; Lane 3: Construct 3; Lane 4: Construct 4; Lane 5: Construct 5.

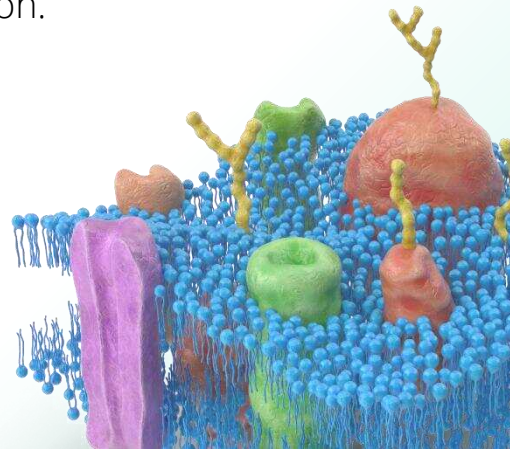
Membrane Protein Expression and Purification Services

Importance of Membrane Proteins

- Crucial for cellular functions like signal transduction and ion transport.
- Key targets in drug research with over half of modern drugs targeting these proteins.

Challenges in Membrane Protein Expression and Purification

- Low expression levels, poor solubility, structural complexity, and difficulty in preserving function.



Expression Platforms

- CHO Full-length Protein Production Platform.
- Insect Full-length Protein Production Platform.
- In Vitro Expression Full-length Protein Production Platform.
- FoldEZ™ Platform.

	<u>Virus-Like Particles (VLPs) Technology Platform</u>	<u>Detergent Micelle Platform</u>	<u>Nanodisc Technology Platform</u>
Features	<ul style="list-style-type: none"> ● Keep the natural conformation ● Enhance immunogenicity ● Efficient expression and functional screening 	<ul style="list-style-type: none"> ● Protect structure and function ● Simplify reconfiguration and purification processes ● High throughput screening and functional analysis 	<ul style="list-style-type: none"> ● Natural conformation ● Efficient extraction and purification ● Enhanced stability ● Diverse research
Applications	<ul style="list-style-type: none"> ● G Protein-coupled Receptors (GPCRs) ● Ion channels and transporters ● Membrane binding enzymes ● Viral envelope proteins ● Tumor-associated membrane proteins 	<ul style="list-style-type: none"> ● G Protein-coupled Receptors (GPCRs) ● Ion channels and transporters ● Membrane binding enzymes ● Antigenic membrane protein ● Membrane protein complex 	<ul style="list-style-type: none"> ● G Protein-coupled Receptors (GPCRs) ● Ion channels and transporters ● Membrane binding enzymes ● Antigenic membrane protein ● Membrane protein complex

	<u>Liposome Technology Platform</u>	<u>Cell Line Development and Membrane Preparation</u>	<u>LiPi™ Technology Platform</u>
Features	<ul style="list-style-type: none"> ● Simulate natural membrane environment ● Improve membrane protein stability ● Enhanced analysis accuracy 	<ul style="list-style-type: none"> ● Diversified expression system ● Efficient screening process ● Customized service ● Professional team 	<ul style="list-style-type: none"> ● High efficiency immobilization ● Mild condition ● Diversity applicability ● Strong controllability
Applications	<ul style="list-style-type: none"> ● Simulate natural membrane environment ● Improve membrane protein stability ● Enhanced analysis accuracy 	<ul style="list-style-type: none"> ● Drug screening ● Functional research ● Antibody development ● Structural biology 	<ul style="list-style-type: none"> ● Biosensor development ● Enzyme immobilization ● Protein interaction studies ● Drug screening

Stable Cell Line Service

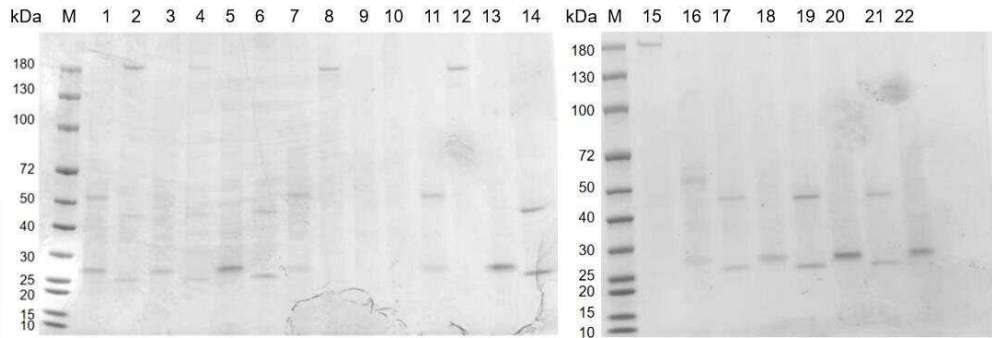
- Recombinant stable pool or stable single clone generation via lentiviral vector transduction with high transfection efficiency.
- Conventional gene transfer methods available for stable cell line development.
- BioCRISPR™ custom genome editing service for knock-out and knock-in cell lines.
- 12 weeks.



Advantages:

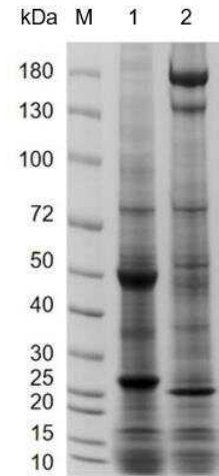
- **Stability:** Cell lines maintain target protein expression even after 25 generations.
- **High Expression:** Capable of expressing high levels of intracellular or secreted target protein.
- **Fast:** High productivity stable clone development in approximately

Examples of Stable Cell Line Service



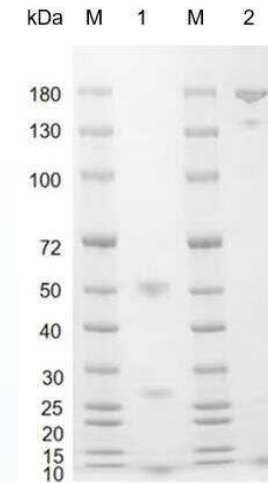
SDS-PAGE analysis of antibody expression.

The constructed plasmids were transferred into CHO cells, cultured, and expressed continuously for 6 days; the supernatant was collected by high-speed centrifugation.



SDS-PAGE analysis of antibody expression.

Lane M: Protein Marker
Lane 1: CHO cell 9F6 reduced;
Lane 2: CHO cell 9F6 non-reduced



SDS-PAGE analysis of antibody purification.

Lane M: Protein Marker
Lane 1: Purified antibody reduced;
Lane 2: Purified antibody non-reduced.

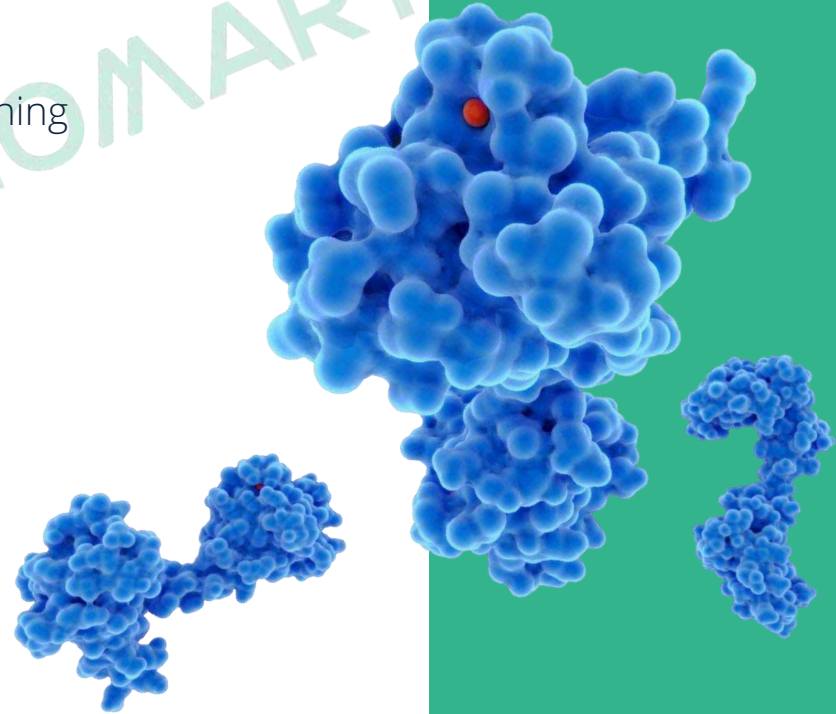
Protein Analysis

- Protein Interaction Service
- Protein Characterization
- Cell-Free Based Protein Analysis
- High-Throughput Screening
- cAMP Accumulation Assay
- Enzyme Target and Screening



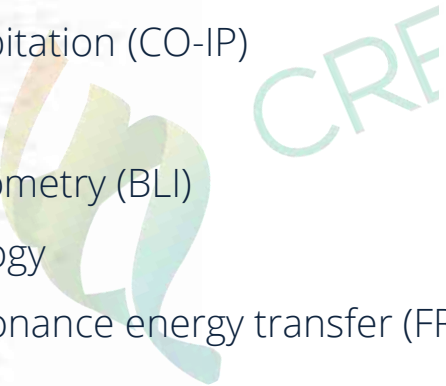
- Membrane Protein Screening
- ATPase/GTPase Assay
- Bioinformatics Analysis
- Protein Kinase Assay
- Protein PTM Analysis

CREATIVE BIOMART

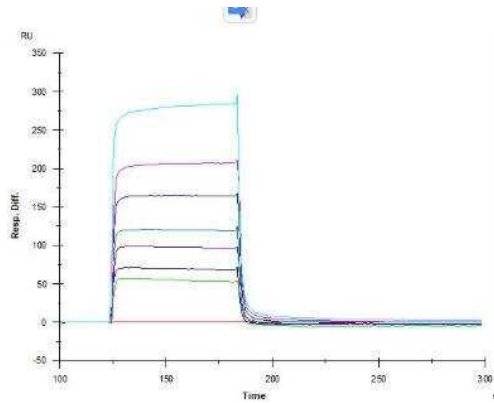


Protein Interaction Service

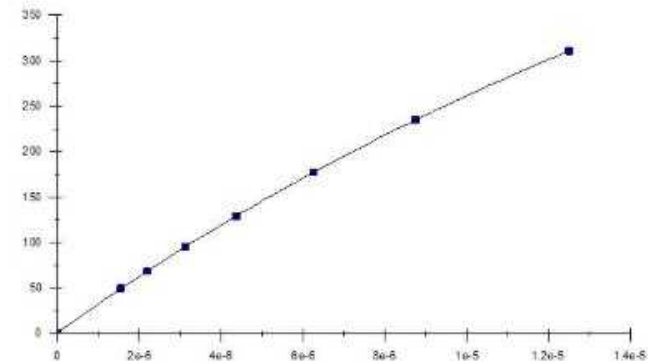
- Yeast two-hybrid
- Membrane-based yeast two-hybrid
- Mammalian two-hybrid
- Surface plasmon resonance (SPR)
- Protein array
- Co-Immunoprecipitation (CO-IP)
- Pull-downs
- Bio-layer interferometry (BLI)
- CLIP-Seq technology
- Fluorescence resonance energy transfer (FRET)



Case Study - SPR

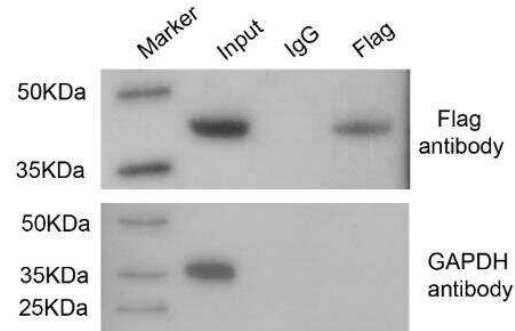


The Service is for SPR binding assay to measure binding affinity K_D of protein interaction with small compound. The ligand is protein which need to be printed onto the chip. The analyte is small compound. All samples were provided by Customer while reagents and consumables were provided by Creative BioMart.



Evaluation of the binding affinity of protein to compound according to the steady-state analysis fitting curve. The equilibrium dissociation constant (K_D Value) was 3.92×10^{-5} M.

Case Study - Co-Immunoprecipitation



Results of western blot detection of IP enrichment.

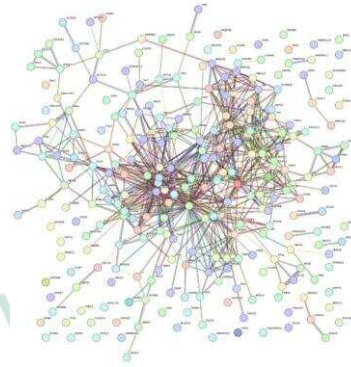
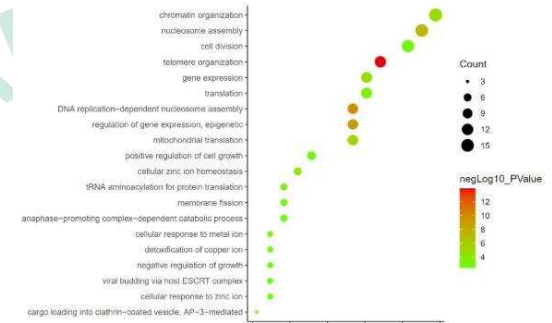
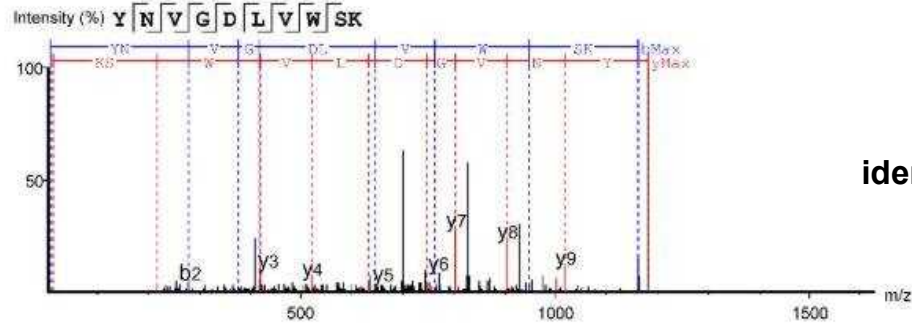


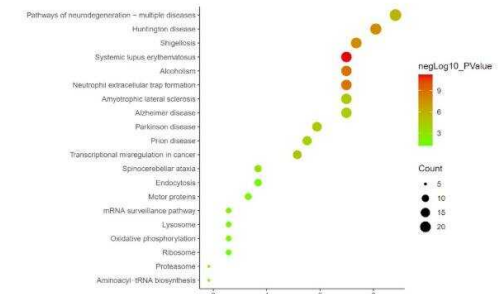
Diagram of STRING protein network.



Results of GO_BP enrichment analysis.



Mass spectrometry identification of IP-enriched target protein.



KEGG Enrichment Analysis.

Screening & Profiling

- Biomarker Service
- Cytokine & Receptor Analysis
- Epitope Mapping
- Ion Channel Screening Assays
- Transporter Screen Assay
- Protease Assay Service
- Epigenetics-Based Assay Development
- Protein Microarray
- Enzyme Activity Assay
- Metabolism Assays





Biopharmaceutical Solutions

- Downstream Processing Development
- Biosimilar Comparability Studies
- cGMP Cell-based Potency Assays
- Pharmaceutical Stability Analysis
- Release Testing
- GLP-Compliant Bioprocess Services
- Drug Discovery Screening
- Quality Control



Food & Healthcare Tests

- Food Additives Test Service
- Drug Analysis Service
- Fungal Toxin Test Service
- Metal/Element Test Service
- Microbiological Test Service
- Nutritive Index Test Service
- Residue Test Service
- Physical & Chemical Index Test Service

Other Services

- Experiment Consulting and Design Service
- Protein Engineering Services
- Protein Engineering (Mutant Libraries)
- Protein Extraction Services
- PEGylation Services
- Directed Evolution
- Protein Labeling



- Renaturation of Recombinant Proteins from Inclusion Bodies
- Endotoxin Removal Service
- Enzyme Immobilization
- Site-Specific and Custom Labeling
- Host Cell Protein Mitigation



PEGylation Services



Generic PEGylation
(1st generation of PEGylation)

Site-specific PEGylation
(2nd generation of PEGylation)

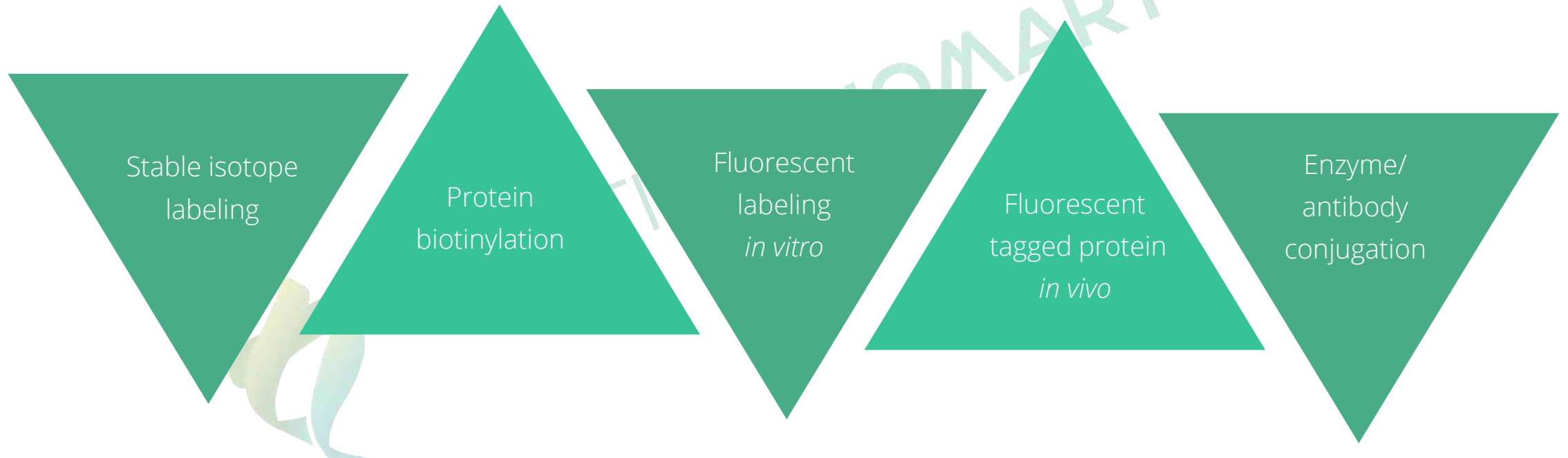
- N-terminal specific PEGylation
- Thiol-selective PEGylation
- Carboxyl specific PEGylation
- Reversible PEGylation

Enzymatic PEGylation
(3rd generation of PEGylation)

PEGylation service
as a regular
customer product

Complete
PEGylation method
development service

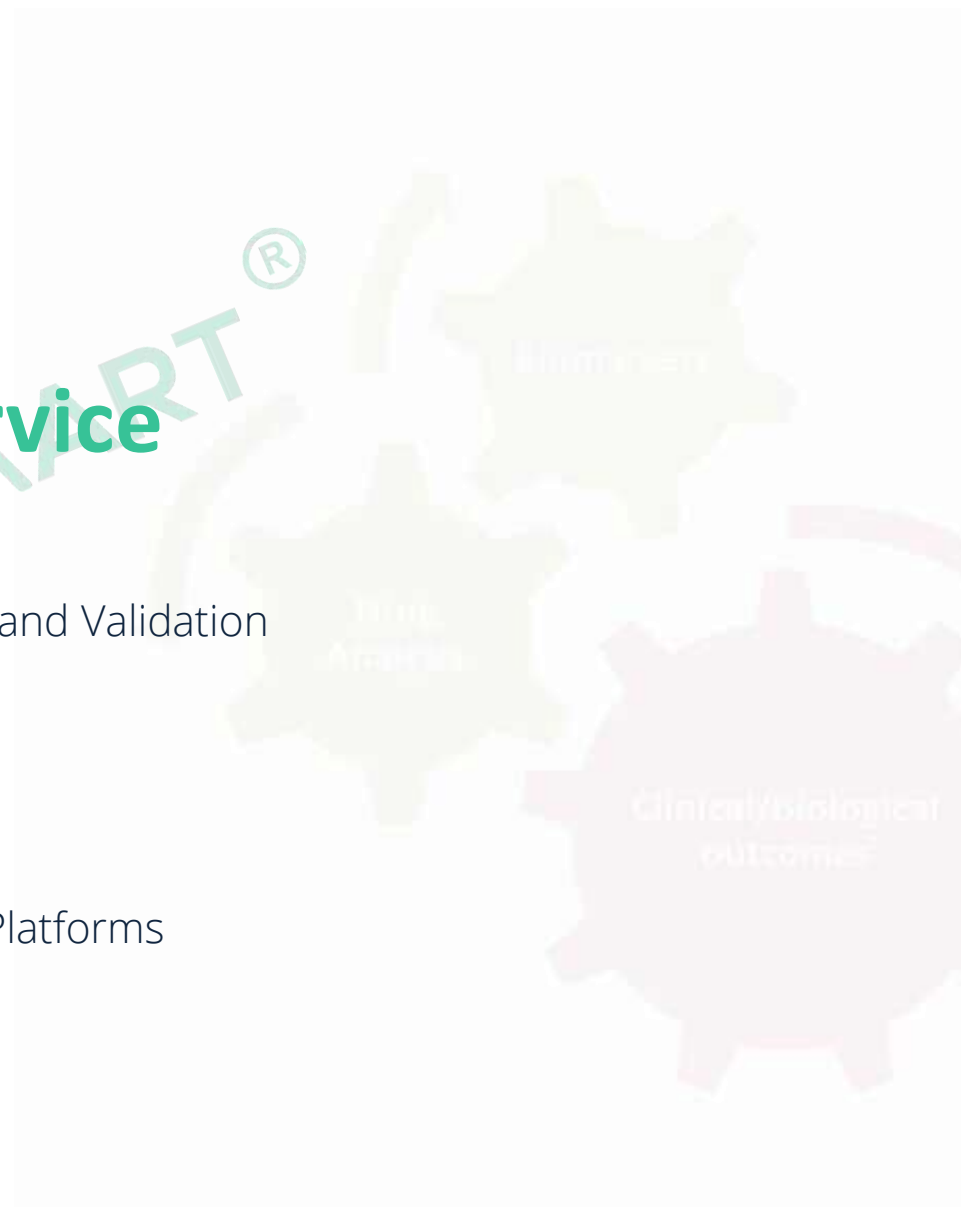
Protein Labeling Services





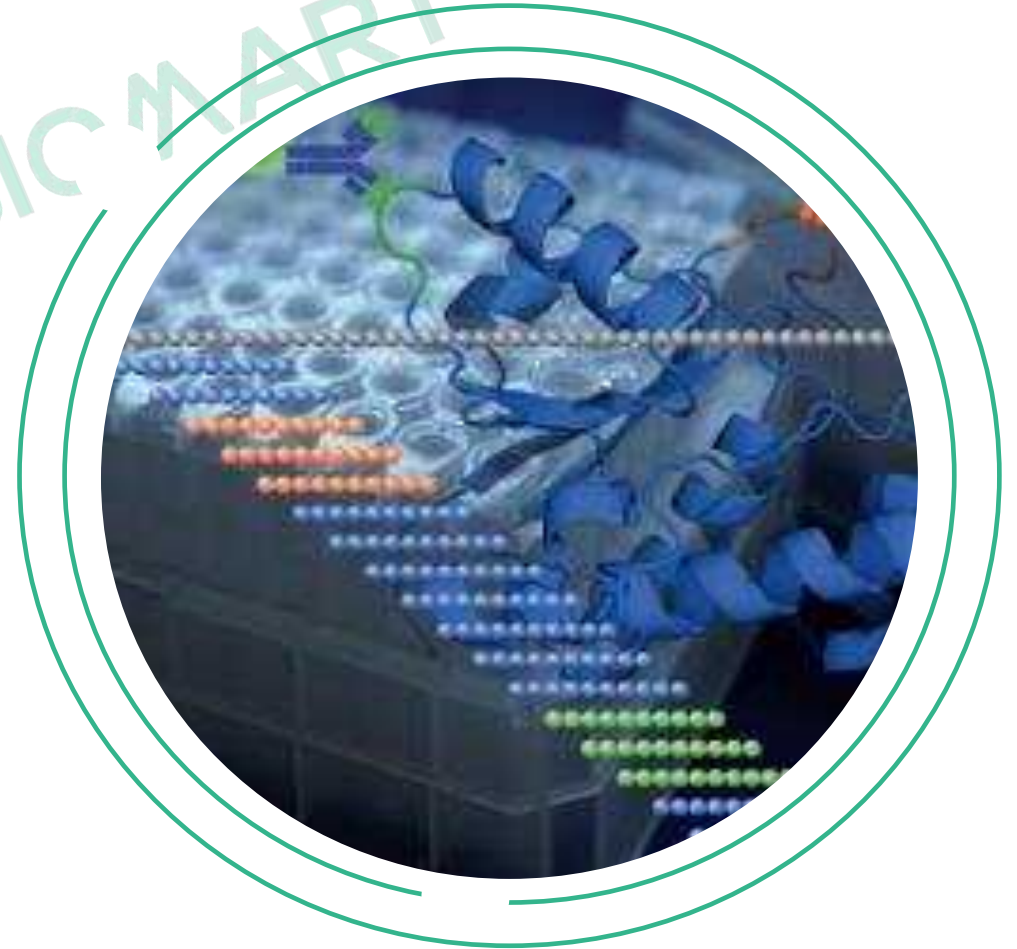
Biomarker Service

- Custom Assay Development and Validation
- Biomarker Immunoassays
- Genomics Analysis
- Proteomics Analysis
- Sample Analysis on Diverse Platforms



Enzyme Activity Assay

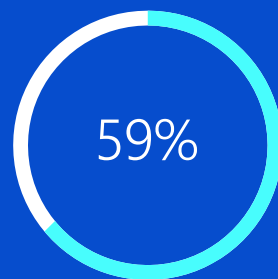
- Kinetic evaluation of enzyme activity & inhibition
- Inhibitor screening and validation
- IC₅₀ determination
- Enzyme-inhibitor studies analyzing mode of action
- Reversibility investigation of enzyme inhibition
- Substrate profiling of enzyme selectivity



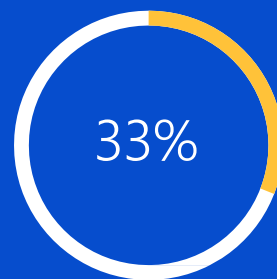
CRO Service



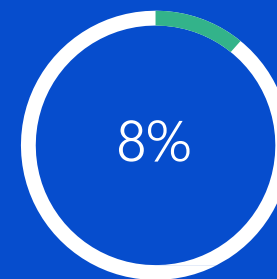
Our Customers



North America



EMEA



Asia, Oceania, South America



Customer Reviews

Voices of Our Customers



We were able to test the protein, and in our hands, it works well in our workflows to conduct ribosylation proteomics.



I would like to thank you for your excellent service and clarity of communication. Creative Biomart will be at the forefront of my mind whenever plasmids or mutant enzymes will be required for my future work, Once again thank you for your excellent service.



Your protein performed really well, we used the biotinylation to conjugate to our reagent and got specific results.



We love the protein! It is gorgeous! We would like to order some more please.

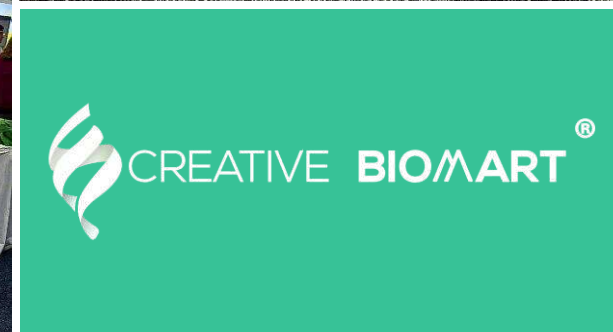


The reagents supplied have been working very well for us so thank-you very much.



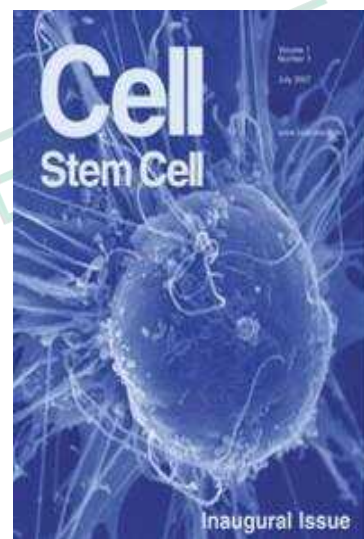
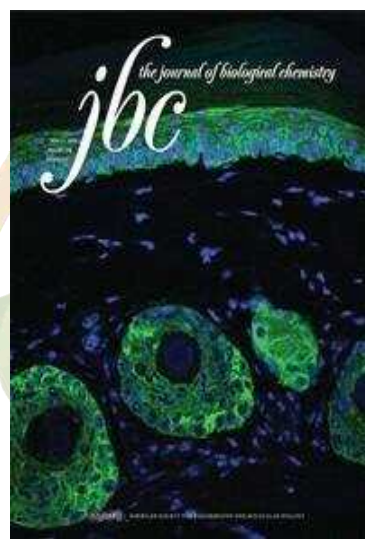
We have tested the recombinant protein in our ELISAs and it performs well. So, we are pleased with your product. We will probably ask you to make another batch in the near future.

Exhibitions We Presented



Publications and Patents

Cited our Works



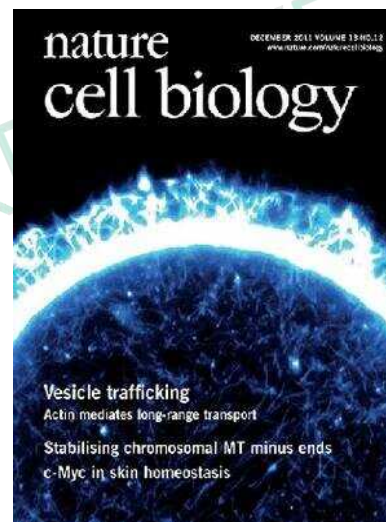
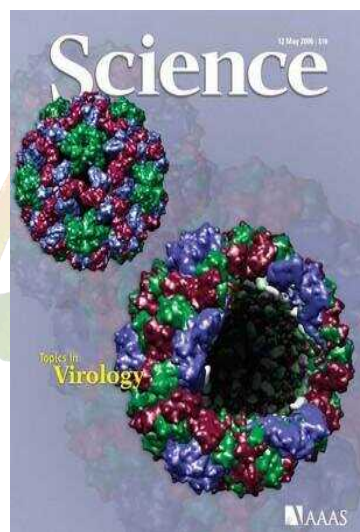
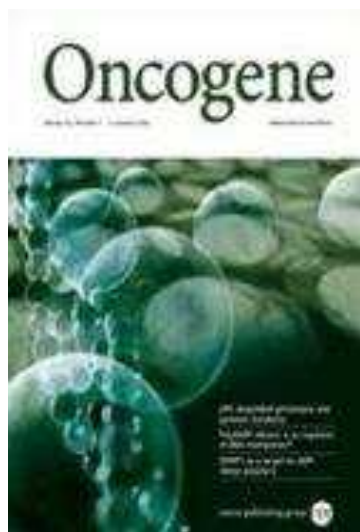
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