



# A Global Leader in Recombinant Protein R&D

## Capacity & Capability

- ▶ Milligram level protein production
- ▶ 2L—2000L bioreactor to ensure high throughput manufacture
- ▶ 1000 new proteins made in house per year
- ▶ Only 4 weeks from gene sequence to protein production

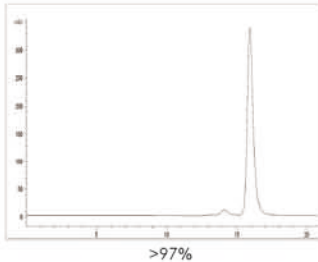
## World Largest Recombinant Protein Bank

- ▶ 6000+ proteins in stock
- ▶ Multiple species & various tags

## Protein Advantages

- ▶ >85% expressed by eukaryotic cells
- ▶ Bioactivity validated
- ▶ High purity & low endotoxin
- ▶ Animal Component Free & carrier free

HPLC Purity

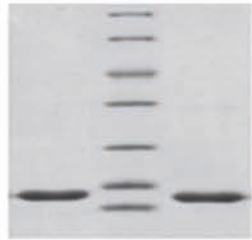


>97%

TNF-alpha (Cat: GMP-10602-HNAE)

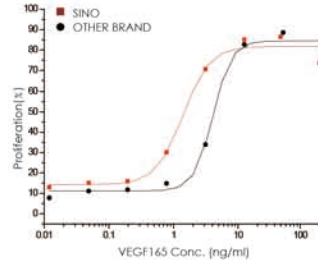
SDS-PAGE Purity

Reduced      non-reduced



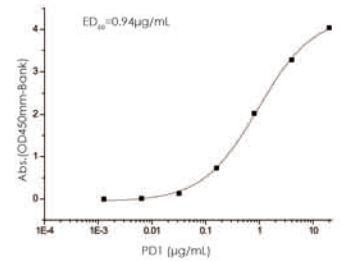
>96%

VEGF165 Bioactivity



Cell (HUVEC) proliferation

PD1 Bioactivity



PD-1 (10377-H03H) bind to PD-L2

## Custom Protein Production Services

**One-stop:** gene cloning -> cell culture -> protein purification -> protein characterization

**High quality:** Proprietary technology and optimized process

**Fast turnaround:** From gene sequence to purified protein within 4 weeks in HEK293 cells

**Low risk:** Milestone payments

**Rich experience:** Over 6000 recombinant proteins, from milligram to gram, have been successfully produced.

HEK293/CHO  
transient  
expression

CHO stable  
cell line  
development

Bacterial  
expression

Baculovirus-  
insect cell  
expression

Yeast  
expression

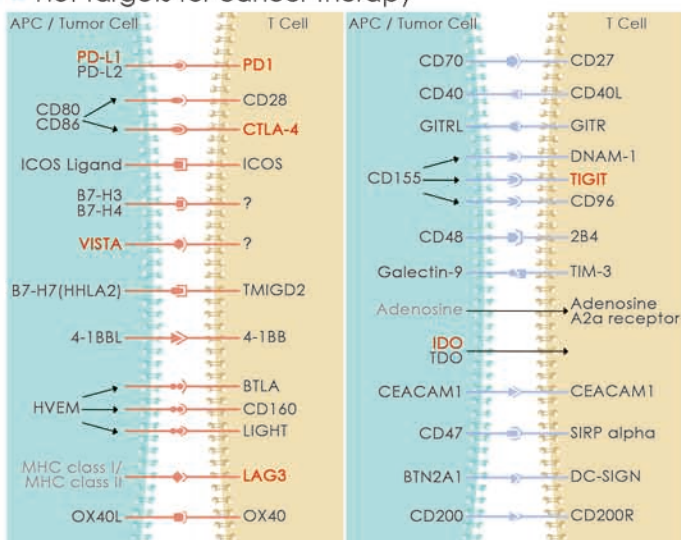
## Bulk Order, Savings More!

- ▶ In stock & ready to ship
- ▶ Bulk order with amazing discount

# Featured Recombinant Protein Products

## 1 Immune checkpoint proteins

### Hot targets for cancer therapy



Note: Products for the molecules in grey colour can not be provided.

## 3 Cytokine proteins

### GMP-level proteins

Cat. NO.	Protein name
GMP-10015-HNAH	Human GM-CSF / CSF2 Protein
GMP-10139-HNAE	Human IL-1 beta / IL1B Protein
GMP-10360-HNCE	Human IL-15 / IL15 / Interleukin 15 Protein
GMP-10395-HNAE	Human IL6 / Interleukin-6 Protein
GMP-10584-HNAE	Human Interleukin-21 / IL-21 Protein
GMP-10602-HNAE	Human TNF-alpha / TNFA Protein
GMP-10605-HNAE	Human EGF / Epidermal Growth Factor Protein
GMP-11725-HNAS	Human IFN-gamma / IFNG / $\gamma$ -IFN Protein
GMP-11821-HNAE	Human IL7 / interleukin 7 Protein
GMP-11846-HNAE	Human IL4 / Interleukin-4 Protein
GMP-CT011-H08H	Human IL-12 (IL12A & IL12B Heterodimer) Protein

## 5 Fc receptor proteins

- High activity of binding to immunoglobulin
- Multiple Species

	CD16a	CD16b	CD32a	CD32b	CD64	FCGR2 & B2M
Human	√	√	√	√	√	√
Mouse	CD16, CD16-2		CD32		√	√
Cynomolgus	CD16		√	√		√
Rat	√		√	√	√	√

## 2 Viral proteins

### Influenza virus proteins

HA	HA0	NP	NA	NA(Active)
NA (Inhibitor-resistant)			M1 & NS1 & NS2	

### DENV proteins

Capsid	NS1	NS5A
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### EBOV Proteins

GP	NP	VP40	NP24
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### ZIKV Proteins

C	E	prM and E	NS3
NS5	NS1		

### RSV Proteins

RSV-G	RSV-F
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## 4 Biotinylated proteins

- Keep high activity under biotinylation
- Cover hot drug targets

Cat. No	Targets	Cat. No	Targets
11066-H27H-B	VEGFA	10694-H08H-B	EpCAM
10481-H08H-B	OX40	10001-H08H-B	EGFR
12635-HNAE-B	S100P	11159-H08H-B	CTLA4
10514-H08H-B	PDGFRB	50059-M08H-B	CSF1R
10292-H08H-B	PD-L2	11031-HCCH-B	CD8B
13128-H01H-B	MSLN	10980-H08H-B	CD8A
10012-H08H-B	KDR	10239-H08E-B	CD40L
50998-M08H-B	KDR	12238-H08H-B	CD33
10359-H08H-B	IFNAR2	11188-H08H-B	B7-H3
10464-H07H-B	FAP	50973-M08H-B	B7-H3
10201-H08H-B	ERBB3	10039-H08B1-B	CD27
10004-H08H-B	ERBB2	10084-H08H-B	PD-L1

## 6 Targets of CAR-T cell therapy

### Targets for solid tumors and blood cancers

CEA	c-MET	EGFR	EGFRvIII	EPCAM	EPHA2
HER2	Glypican-3	Mesothelin	Muc1	PD-1	PD-L1
VEGFR2	IL13RA2	PSMA	FAP	CAIX	FOLR1
L1CAM	ROR1	BCMA	CD123	CD138	CD19
CD20	Siglec-2	CD30	Siglec-3	CD38	Leu-1
CD56	ULBP1	ULBP2	IL1R3		

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Biological Solution Specialist