

# **Recombinant Proteins**

Recombinant proteins are widely applied in cell culture, structure and function analysis, immunology assays, antibody production, and in vitro biochemical analysis, etc.

MedChemExpress provides a catalog of 10,000+ recombinant proteins and customized services, supporting scientific research.



C2, C3a, C5a, CFH, DAF, CFHR1, C1qR1, MASP1, C1QBP, CFB, etc.

#### **GMP-grade Proteins**

GMP EGF, TNF-alpha, Fibronectin,

Fc gamma RIII, Fc gamma RII, Fc-gamma Receptor I, FcRn, etc.

### **Animal-free Recombinant**

**Proteins** AF EGF, IL-4, IFN-γ, IL-2, etc.

## Ubiquitin/UBLs, Ubiquitin Enzymes,

Deubiquitinases

#### Fluorescent-labeled/ **Biotinylated Proteins** Biotinylated CD28, FITC-NKG2D, etc.

### **Recombinant Protein Expression Service**













**Codon Optimization** 

Gene Synthesis

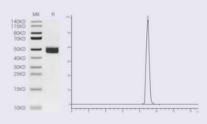
Construction of Expression Vector

Strain Screening

Protein Expression

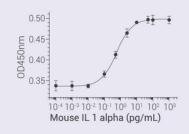
Protein Purification Protein Delivery

## **Activity Verification**



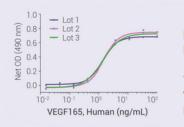
#### HY-P75832 Mouse IL-13R alpha 2

Greater than 95% as determined by reducing Tris-Bis PAGE and HPLC.



#### HY-P7072 Mouse IL-1 alpha

Measured in a proliferation assay using CTLL-2 Mouse T lymphocytes cells and the ED<sub>50</sub> is 0.5 pg/mL.



#### HY-P7110A Human VEGF165

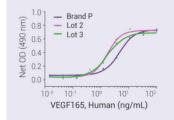
The ED<sub>50</sub> of MCE human VEGF165 from three different Lots are similar.

### **Customer Validation**

М		WT	WT+IFN-β (100pg/ml)				Ifnb <sup>~</sup>			
	NC H37Rv				UreC NC H37Rv∆UreC			NCH37Rv △ UreC		
DAPI	•	۰.	۰.				6	0	•	
Mtb	_	1.5	•_	_	<u>et 1</u>	- 2	_	~ _	5	
Lipid Droplet	8		,#77	٢			Tri-	-	8	
Merge	8	1	1	٩.	ø.		0	*	2	

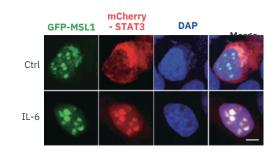
Cell Line: Primary murine peritoneal macrophages Concentration: Mouse IFN-β (HY-P73130), 100 pg/mL Method: Cell culture, 24 h

Result: IFN- $\beta$  markedly enhanced foam cell formation in macrophages, and eliminated ΔUreC-mediated inhibition of the H37Rv-induced accumulation of lipid droplets. (Usage Cited in **Cell Host Microbe**. 2023Nov8;31(11):1820-1836.e10.)



#### HY-P7110A Human VEGF165

The ED<sub>50</sub> of human VEGF165 from MCE's each Lot is lower than of Competitor P.



Cell Line: Cell culture

Concentration: Human IL-6 (HY-P7044), 10 ng/mL Method: Cell culture, 30 min

Result: After coexpression of MSL1 and STAT3, STAT3 entered the nucleus and was phase separated from MSL1 following IL 6 treatment.

(Usage Cited in Adv Sci (Weinh). 2023 Aug; 10(23): 2301094.)

### **Selected Publications Citing Use of MCE Proteins**

Cell. 2024 Apr 25;187(9):2288-2304.e27. Adv Mater. 2024 Feb 1:e2311964. Cancer Cell. 2024 Apr 8;42(4):682 700.e12. Cell Rep Med. 2023 Aug 25;101177.

Immunity. 2024 Mar 12;57(3):495-512.e11 Nat Genet. 2024 Jan 24.

Sci Adv. 2023 Aug 25;9(34):eadh2501. Crit Care. 2023 May 22;27(1):196. Sci Adv. 2023 Aug 25;9(34):eadh2501.



