

Human CellExp™ IL-13, Human Recombinant

CATALOG NO:	P1186-10	10 µg
ALTERNATE NAMES:	IL13, ALRH, BHR1, MGC116786, MGC116788, MGC116789, P600, Interleukin-13	
SOURCE:	HEK 293 cells (Leu 25 - Asn 146)	
PURITY:	> 92% by SDS – PAGE	
MOL. WEIGHT:	This protein carries no "tag". The protein has a calculated MW of 13.4 kDa. The protein migrates as 20-33 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.	
ENDOTOXIN LEVEL:	< 1.0 EU per 1µg of protein (determined by LAL method)	
FORM:	Lyophilized	
FORMULATION:	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Generally Mannitol or Trehalose is added as a protectant before lyophilization.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.	
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a concentration of 50 µg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% (W/V) HSA or BSA) is recommended for further dilution and long term storage. Do not vortex. This solution can be stored at 2-8°C for up to 1 month.	
DESCRIPTION:	Interleukin 13 (IL13) is also known as ALRH, BHR1 and P600, is a single-chain glycosylated polypeptide, and is a cytokine critical in regulating inflammatory and immune responses. IL13 is secreted by many cell types, but especially by T helper type 2 (Th2) cells. IL-13 induces its effects through a multi-subunit receptor that includes the alpha chain of the IL-4 receptor (IL-4Rα) and at least one of two known IL-13-specific binding chains. The functions of IL-13 overlap considerably with those of IL-4, especially with regard to changes induced on hematopoietic cells, but these effects are probably less important given the more potent role of IL-4. IL-13 induces matrix metalloproteinases (MMPs) as part of a mechanism that protects against excessive allergic inflammation that predisposes to asphyxiation. IL-13 induces many features of allergic lung disease, including airway hyperresponsiveness, goblet cell metaplasia and mucus hypersecretion, which all contribute to airway obstruction.	

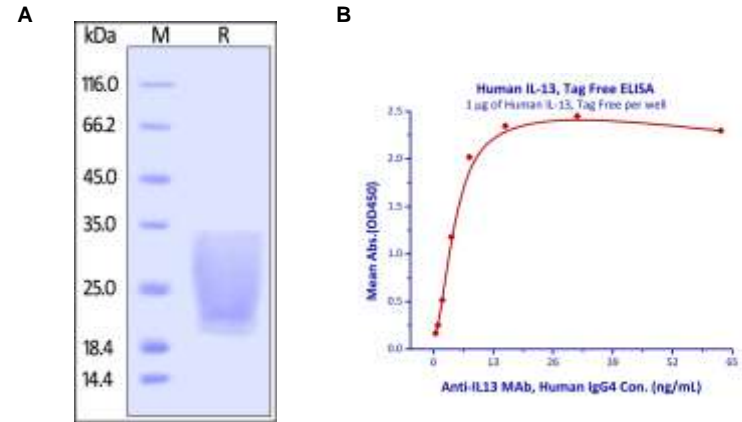


Fig. A. Human IL-13, Tag Free on SDS-PAGE under reducing (R) condition

Fig. B. Immobilized Human IL-13, Tag Free at 10 µg/mL (100 µL/well) can bind Anti-IL13 MAb, Human IgG4 with a linear range of 0.5-8 ng/mL.

SPECIFIC ACTIVITY: Immobilized Human IL-13, Tag Free at 10 µg/mL (100 µL/well) can bind Anti-IL13 MAb, Human IgG4 with a linear range of 0.5-8 ng/mL.

RELATED PRODUCT:

- Human CellExp™ IL13RA2/CD213, human recombinant (Cat. No. 7489-10)
- Human CellExp™ IL13RA1/CD213A1, human recombinant (Cat. No. 7433-10, -50)
- Human CellExp™ CD160/BY55, human recombinant (Cat. No. 7386-10, -50)
- Human CellExp™ CD166/ ALCAM, human recombinant (Cat. No. 7437-10, -50)
- Human CellExp™ CD172A / SIRP, human recombinant (Cat. No. 7506-10, -50)
- Human CellExp™ CD33 / SIGLEC-3, human recombinant (Cat. No. 7370-10, -50)
- Human CellExp™ CD47, human recombinant (Cat. No. 7385-10, -50)
- Human CellExp™ CD55/DAF, human recombinant (Cat. No. 7432-10, -50)
- Human CellExp™ CD58 /LFA-3, human recombinant (Cat. No. 7427-10, -50)
- Human CellExp™ CD62E/E-Selectin, human recombinant (Cat. No. 7434-20, -100)
- Human CellExp™ CD71 / TFRC / TFR, human recombinant (Cat. No. 7279-10, -50)
- Human CellExp™ CD273, human recombinant (Cat. No. 7369-10, -50)
- Human CellExp™ CD36, human recombinant (Cat. No. 7371-10, -50)
- Human CellExp™ CD87, human recombinant (Cat. No. 7372-20, -100)

FOR RESEARCH USE ONLY! Not to be used on humans.

