

Cynomolgus IL-5 Protein; hFc Tag

Product Information

Product Name	Cynomolgus IL-5 Protein; hFc Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-88770RP-100 / 100 μg GM-88770RP-1000 / 1 mg

Protein Information

Alternative Names	TRF, IL5, Interleukin-5
Source	Cynomolgus IL-5 Protein; hFc Tag (GM-88770RP) is expressed from human 293 cells (HEK-293). It contains AA Ile 20 - Ser 134 (Accession # A0A2K5U1E7). This protein carries a hFc tag at the N-terminus.
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	39.9 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.2–7.4.
Description	Interleukin-5 (IL-5) is a secreted cytokine primarily produced by Th2 cells, group 2 innate lymphoid cells, and mast cells. IL-5 signals through the IL-5 receptor, a heteromeric complex composed of the IL-5 receptor alpha chain (IL-5R α) and the common beta chain (βc , also known as CD131) shared with other cytokine receptors. Engagement of this receptor complex promotes eosinophil survival and function, and aberrant IL-5 signaling has been linked to eosinophilic disorders. Upon IL-5 binding, the IL-5R α / βc receptor complex activates associated kinases, leading to phosphorylation of downstream signaling molecules such as JAK2 and STAT5, which drive transcription of genes involved in eosinophil proliferation, maturation, and survival. The pathway also engages MAPK and PI3K/AKT signaling branches, contributing to cellular growth and anti-apoptotic signals. Dysregulation of IL-5 signaling can enhance eosinophilic inflammation in diseases like asthma and hypereosinophilic syndromes.

Figures

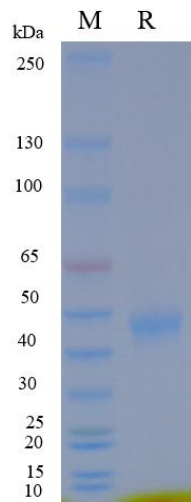


Figure 1 | On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

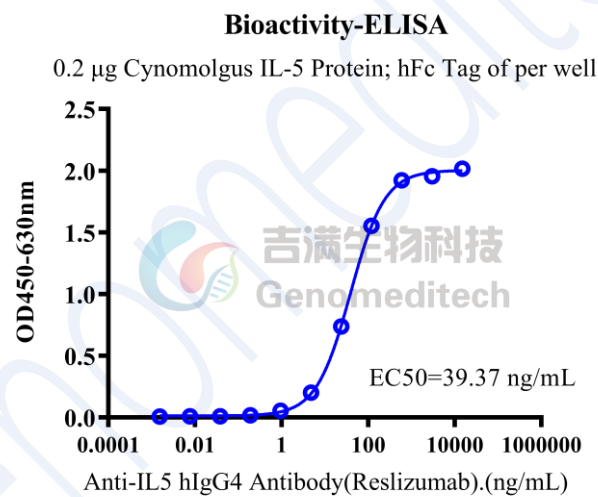


Figure 2 | Cynomolgus IL-5 Protein; hFc Tag (Catalog # GM-88770RP) was immobilized at 2 μ g/ml (100 μ L/well). Increasing concentrations of Anti-IL5 hIgG4 Antibody(Reslizumab) (Catalog # GM-52408AB) were added.

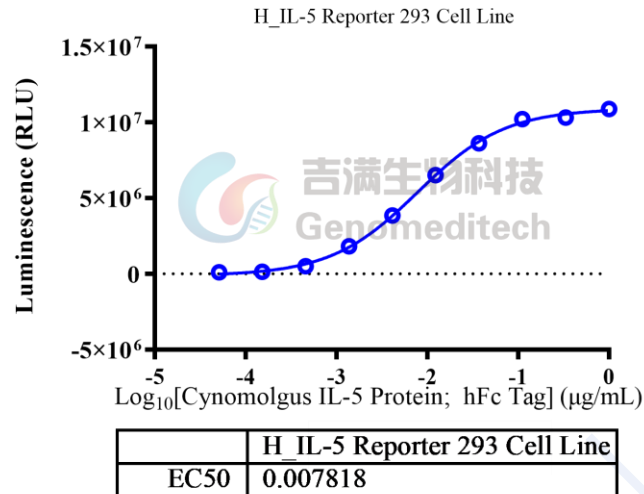


Figure 3 | Cynomolgus IL-5 Protein; hFc Tag (Catalog # GM-88770RP) was added into H_IL-5 Reporter 293 Cell Line (Catalog # GM-C06723) and stimulates related signals.

Related Products

IL-4/IL-13

Version:5.0

IL-4 Reporter Cell Line	IL-4/IL-13 Reporter 293 Cell Line
IL-4/IL-13 Reporter 293 DDX35TM Cell Line	Cynomolgus IL4R CHO-K1 Cell Line
H_IL4R CHO-K1 Cell Line	H_IL4R CHO-K1 Cell Line (Low Expression)
H_IL4R HEK-293 Cell Line	Mouse_IL4R CHO-K1 Cell Line
Anti-IL13 hIgG4 Reference Antibody (LebriBio)	Anti-IL-4R hIgG1 Antibody(12B5)
Anti-IL4R hIgG4 Antibody(Dupilumab)	Anti-IL4R hIgG4 Reference Antibody (Dupbio)
Anti-IL-4R×IL31 hIgG4 Reference Antibody (PRO2198)	Anti-Mouse IL-4RA mIgG1 Antibody
Biotinylated Human IL-4R alpha Protein; Avi-His Tag	Cynomolgus IL-13 Protein; His Tag
Cynomolgus IL-13RA1 Protein; His Tag	Cynomolgus IL-4 Protein; His Tag
Cynomolgus IL-4R alpha Protein; His Tag	Human IL-13 Protein; His Tag
Human IL-13RA1 Protein; hFc Tag	Human IL-13RA1 Protein; His Tag
Human IL-4 Protein; His Tag	Human IL-4R alpha Protein; hFc Tag
Human IL-4R alpha Protein; His Tag	Human IL-4R alpha Protein; mFc Tag
Mouse IL-13 Protein; His Tag	Mouse IL-4R alpha Protein; His Tag
Rat IL-4R alpha Protein; His Tag	
TSLP:TSLPR	
H_TSLP Reporter 293 Cell Line	H_TSLP Reporter Cell Line
H_TSLPR CHO-K1 Cell Line	H_TSLPR IL7RA BaF3 Cell Line
Anti-H_TSLPR hIgG1 Antibody	Anti-TSLP hIgG2 Antibody(Tezepelumab)
Anti-TSLP hIgG2 Reference Antibody (TezBio)	
Biotinylated Human TSLP Protein; His-Avi Tag	Cynomolgus TSLP Protein; His Tag
Cynomolgus TSLPR Protein; His Tag	Human TSLP Protein; hFc Tag
Human TSLP Protein; His Tag	Human TSLPR Protein; hFc Tag
Human TSLPR Protein; His Tag	
IL-5	
H_IL-5 Reporter 293 Cell Line	Cynomolgus IL-5RA HEK-293 Cell Line
H_IL-5RA CHO-K1 Cell Line	H_IL-5RA HEK-293 Cell Line
Anti-IL5 hIgG4 Antibody(Reslizumab)	Anti-IL-5R hIgG1 Antibody(Benralizumab)
Cynomolgus IL-5 Protein; His Tag	Human IL-5 Protein; hFc Tag
Human IL-5 Protein; His Tag	