

Human IL-5 Protein; hFc Tag

Product Information

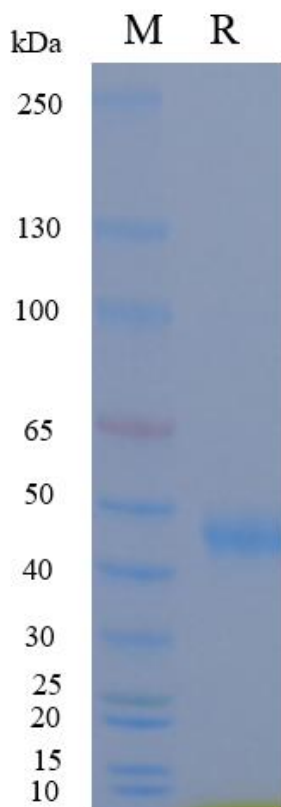
Product Name	Human IL-5 Protein; hFc Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Catalog# / Size	GM-88769RP-100 / 100 μg GM-88769RP-1000 / 1 mg
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Protein Information

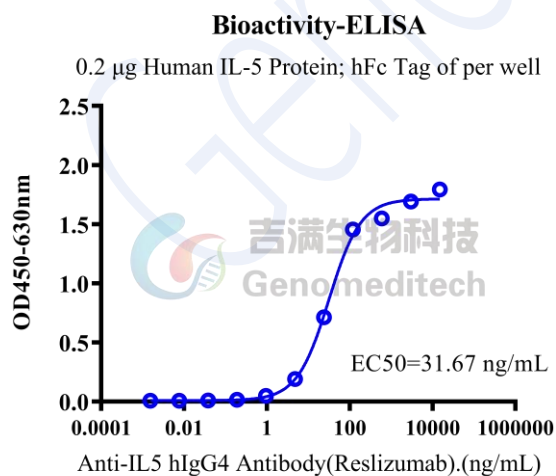
Alternative Names	TRF, IL5, Interleukin-5
Source	Human IL-5 Protein; hFc Tag (GM-88769RP) is expressed from human 293 cells (HEK-293). It contains AA Ile 20 - Ser 134 (Accession # P05113-1). This protein carries a hFc tag at the N-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	39.9 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	IL-5 protein, full name Interleukin-5, is an important secreted cytokine and a member of the interleukin family. IL-5 protein plays a crucial role in regulating the production, activation, and survival of eosinophils, as well as promoting B cell proliferation and differentiation in normal physiological conditions, particularly in mucosal immune responses against parasitic infections. Currently, several IL-5-targeted therapeutic strategies have been developed and are widely used in clinical practice, including monoclonal antibodies such as mepolizumab, reslizumab, and benralizumab. These agents can reduce eosinophil counts and alleviate inflammation by neutralizing IL-5 or blocking its receptor (IL-5Rα), thereby improving asthma control, reducing exacerbations, and enhancing patient quality of life. In summary, IL-5 protein plays a critical role in eosinophil-mediated inflammatory diseases, and is of great significance for understanding disease pathogenesis, selecting targeted biological therapies, and evaluating patient prognosis, particularly in severe asthma and other eosinophilic disorders.

SDS-PAGE



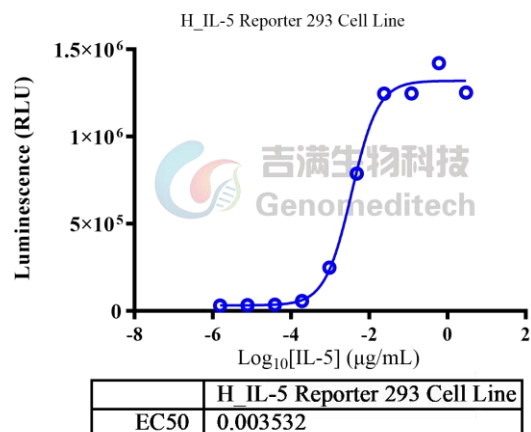
On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Human IL-5 Protein; hFc Tag (Catalog # GM-88769RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-IL5 hIgG4 Antibody (Reslizumab) (Catalog # GM-52408AB) were added.

Bioactivity-CELL BASE



Human IL-5 Protein; hFc Tag (Catalog # GM-88769RP) was added into H_IL-5 Reporter 293 Cell Line (Catalog # GM-C06723) and stimulates related signals.