

Human IL-4 Protein; His Tag

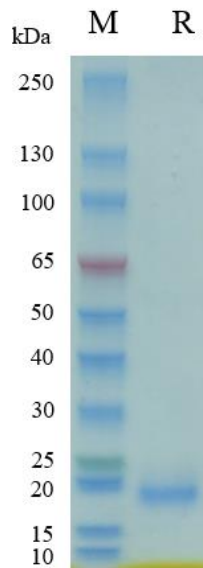
Product Information

Product Name	Human IL-4 Protein; His 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-88042RP-100 / 100 μg GM-88042RP-1000 / 1 mg

Protein Information

Alternative Names	IL4,BCGF1,BSF1
Source	Human IL-4 Protein; His Tag (GM-88042RP) is expressed from human 293 cells (HEK-293). It contains AA His 25 - Ser 153 (Accession # P05112-1). This protein carries a His tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	15.8 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	<p>Interleukin-4 (IL-4) is a key cytokine that plays an important role in regulating immune responses. It is mainly produced by helper T cells (especially Th2 cells), mast cells, and some other immune cells. IL-4 promotes the differentiation of B cells into antibody-producing cells, enhances type I immune responses, and suppresses Th1-mediated immune pathways. This is crucial for combating parasitic infections and modulating allergic reactions.</p> <p>Additionally, IL-4 is involved in maintaining immune system balance, promoting anti-inflammatory responses, and tissue repair. In clinical research, understanding IL-4 and its signaling pathway is significant for comprehending allergic diseases, autoimmune conditions, and developing related immunotherapies. Its functions extend beyond the immune system, influencing the growth and differentiation of blood cells and tissue cells.</p>

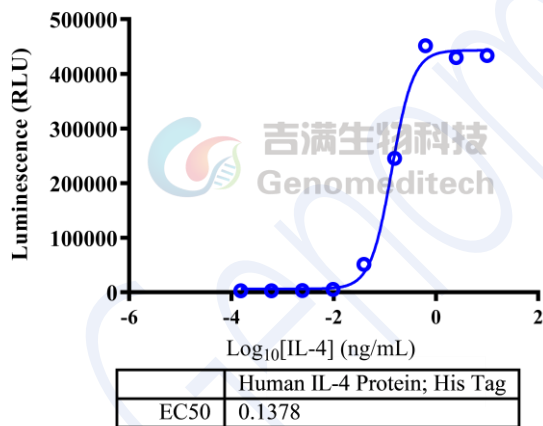
SDS-PAGE



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-CELL BASE

IL-4/IL-13 Reporter 293 Cell Line



Human IL-4 Protein; His Tag (Catalog # GM-88042RP) was added into IL-4/IL-13 Reporter 293 Cell Line (Catalog # GM-C01511) and stimulates IL-4/IL-4R signals.