Genomeditech (Shanghai) Co.,Ltd. Order: 021-68455258/50432826/50432825

Toll-free: 400 627 9288

Email: service@genomeditech.com

Human IL-13 Protein; His Tag

Product Information

Product Name Human IL-13 Protein; His Tag

Storage temp Store at \leq -70°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-88040RP-100 / 100 μg

GM-88040RP-1000 / 1 mg

Protein Information

Alternative Names IL13, ALRH, BHR1, MGC116786, MGC116788, MGC116789, Interleukin-13

Source Human IL-13 Protein; His Tag (GM-88040RP) is expressed from human 293 cells

(HEK-293). It contains AA Gly 35 - Asn 146 (Accession # P35225).

This protein carries a His tag at the C-terminus.

Purity > 90% as determined by SDS-PAGE

Endotoxin < 1 EU/μg, determined by LAL gel clotting assay

Predicted Mol Mass 13.1 KDa

Formulation Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.

Description IL-13 is a pleiotropic cytokine produced mainly by Th2 cells, ILC2s, mast cells,

and eosinophils. It signals through the IL-4R α chain, often in conjunction with the γc or IL-13R α 1, activating downstream pathways such as STAT6, driving type 2 immune responses, promoting IgE class switching, mucus production, airway hyperresponsiveness, eosinophilic inflammation, and tissue remodeling. IL-13 is closely involved in the pathogenesis of diseases such as asthma and allergic rhinitis and certain fibrotic states, and it also participates in defense

against parasites.

The IL-13 gene is located in a region with upstream and downstream shared elements, and its expression is regulated by transcription factors responsive to Th2-skewing signals, such as GATA3 and STAT6. IL-13 signaling can be regulated by receptor availability, soluble decoys, and genetic variants that affect receptor binding or expression. Therapeutic strategies targeting IL-13 or its signaling axis (for example, monoclonal antibodies against IL-13 or IL-4R α) have shown efficacy in reducing mucus hypersecretion, airway inflammation, and remodeling in various allergic diseases, highlighting the key role of IL-13 in type

II (Type 2) immunity.

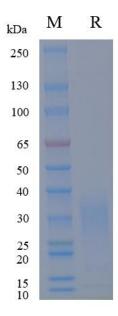


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SDS-PAGE

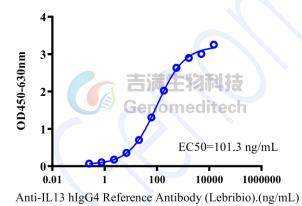


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA

Bioactivity-ELISA

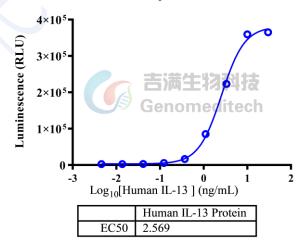
0.6 μg Anti-His mIgG2a Antibody+0.5 μg Human IL-13 Protein; His Tag of per well



Human IL-13 Protein; His Tag (Catalog # GM-88040RP) was immobilized at 5 μ g/ml (100 μ L/well) on Anti-His mIgG2a Antibody (Catalog # GM-59493AB) (0.6 μ g/well) precoated. Increasing concentrations of Anti-IL13 hIgG4 Reference Antibody (Lebribio) (Catalog # GM-88031MAB) were added.

Bioactivity-CELL BASE

IL-4/IL-13 Reporter 293 Cell Line



Human IL-13 Protein; His Tag (Catalog # GM-88040RP) was added into IL-4/IL-13 Reporter 293 Cell Line (Catalog # GM-C01511) and stimulates related signals.