

Mouse IL-13 Protein; His Tag

Product Information

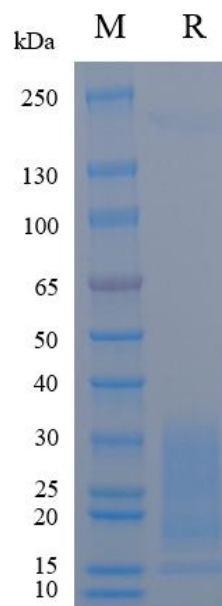
Product Name	Mouse IL-13 Protein; His Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-88166RP-100 / 100 μg GM-88166RP-1000 / 1 mg

Protein Information

Alternative Names	IL13, ALRH, BHR1, MGC116786, MGC116788, MGC116789, Interleukin-13
Source	Mouse IL-13 Protein; His Tag (GM-88166RP) is expressed from human 293 cells (HEK-293). It contains AA Ala 19 - Phe 131 (Accession # P20109). This protein carries a His 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	13.2 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	<p>IL-13 is a pleiotropic cytokine produced mainly by Th2 cells, ILC2s, mast cells, and eosinophils. It signals through the IL-4Rα chain, often in conjunction with the γc or IL-13Rα1, 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.</p> <p>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-4Rα) 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.</p>

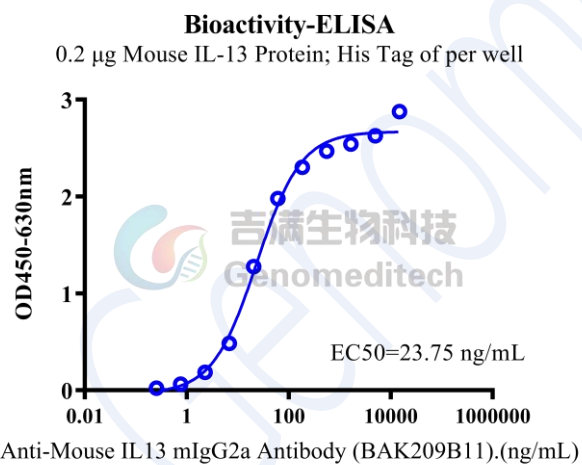
Version:4.0

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



Mouse IL-13 Protein; His Tag (Catalog # GM-88166RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-Mouse IL13 mIgG2a Antibody (BAK209B11) (Catalog # GM-88168MAB) were added.