

Human IL-31RA Protein; hFc Tag

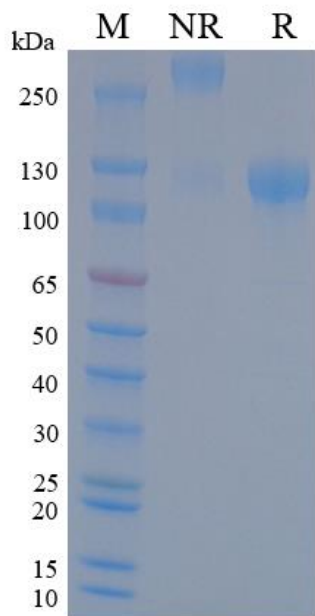
Product Information

Product Name	Human IL-31RA 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-88092RP-100 / 100 μg GM-88092RP-1000 / 1 mg

Protein Information

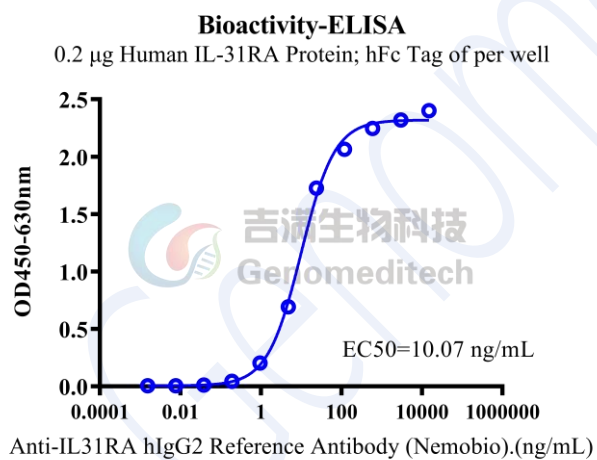
Alternative Names	hGLM-R,CRL3,GPL,ZcytoR17,GLM-R,IL-31R-alpha,Gp130-like receptor
Source	Human IL-31RA Protein; hFc Tag (GM-88092RP) is expressed from human 293 cells (HEK-293). It contains AA Ala 20 – Glu 519 (Accession # Q8NI17-1). This protein carries a hFc tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	83.0 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	<p>IL-31RA (IL-31 receptor A) is the α subunit of the IL-31 signaling pathway and forms a receptor dimer with OSMRβ to mediate IL-31 signal transmission. When IL-31 forms a heterodimer with IL-31RA/OSMRβ, it activates signaling pathways such as JAK/STAT and MAPK, regulating inflammation and cellular proliferation and differentiation.</p> <p>IL-31RA is primarily expressed in skin immune cells (such as Th2 cells, mast cells, etc.) and some epithelial cells, with other tissues showing baseline expression as well, facilitating IL-31 signaling in both local and systemic inflammation. Through IL-31RA, IL-31 can promote the release of inflammatory mediators, couple the neuro-immune axis, and transmit itch signals, participating in the pathogenesis of diseases such as eczema/atopic dermatitis and informing therapeutic targets. Drugs targeting the IL-31/IL-31RA axis show potential in alleviating itch and reducing inflammation; current research focuses on receptor structure-function relationships, cross-species differences, and coordinated regulation with OSMRβ.</p>

SDS-PAGE



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

Bioactivity-ELISA



Human IL-31RA Protein; hFc Tag (Catalog # GM-88092RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-IL31RA hIgG2 Reference Antibody (Nemobio) (Catalog # GM-88053MAB) were added.