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

Toll-free: 400 627 9288

Email: service@genomeditech.com

Human IL-31 Protein; His Tag

Product Information

Product Name Human IL-31 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-88062RP-100 / 100 μg

GM-88062RP-1000 / 1 mg

Protein Information

Alternative Names IL-31, IL31, Interleukin-31

Source Human IL-31 Protein; His Tag (GM-88062RP) is expressed from human 293 cells

(HEK-293). It contains AA Ser 24 – Thr 164 (Accession # Q6EBC2-1).

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 16.7 KDa

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

Description IL-31 is a cytokine from the immune system, belonging to the interleukin family,

typically existing as a homodimer or monomer and signaling through a receptor complex composed of IL-31RA and OSMR β . It activates pathways such as JAK/STAT and MAPK, regulating cell proliferation, differentiation, and inflammatory responses. Under healthy conditions, IL-31 is primarily secreted by skin-resident cells including Th2 cells, mast cells, and basophils, as well as some epithelial cells; in inflammatory or allergic states, its expression is typically

upregulated

IL-31 is closely linked to pruritus in inflammatory skin diseases, promoting keratinocyte activity, release of inflammatory mediators, and stimulation of nerve endings through the receptor complex, thereby driving itch and inflammation. In atopic dermatitis and other eczema-related conditions, IL-31 and its signaling pathways are often upregulated, making them potential therapeutic targets; drugs that neutralize IL-31 or interfere with IL-31RA signaling may alleviate itch and

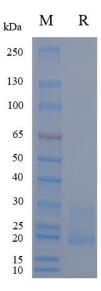
reduce inflammation.

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SDS-PAGE

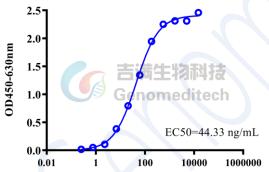


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA

Bioactivity-ELISA

0.6 μg Anti-His mIgG2a Antibody + 0.2 μg Human IL-31 Protein; His Tag of per well



Anti-IL-31 hIgG4 Reference Antibody (BMS-981164).(ng/mL)

Human IL-31 Protein; His Tag (Catalog # GM-88062RP) was immobilized at 2 $\mu g/ml$ (100 $\mu L/well$) on Anti-His mIgG2a Antibody (Catalog # GM-59493AB) (0.6 $\mu g/well$) precoated. Increasing concentrations of Anti-IL-31 hIgG4 Reference Antibody (BMS-981164) (Catalog # GM-88056MAB) were added.