

Active Recombinant Human IL31 Protein (Ser24-Thr164), C-His tagged, Animal-free, Carrier-free

Cat. No. IL31-187H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL31 Protein (Ser24-Thr164) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Ser24-Thr164
Description	Interleukin 31 (IL-31) is an 18 kDa cytokine with 142 amino acid residues. IL-31 is mainly secreted from activated CD4+ T cells and binds to a receptor called IL-31RA. Upon binding to 31RA, IL-31 activates several signal pathways like MAPK, PI3K/AKT, and Jak/STAT pathways. It is critical in regulating many biological functions, such as cell proliferation, hematopoiesis, induction of cytokines, inflammation, and immune response.
Form	Lyophilized
Bio-activity	Measured by its ability to induce A549 cells proliferation. The ED50 for this effect is < 40 ng/mL.
Molecular Mass	The protein has a calculated MW of 16.78 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	IL31 interleukin 31 [Homo sapiens (human)]
Official Symbol	IL31
Synonyms	IL31; interleukin 31; interleukin-31; IL 31; IL-31;
Gene ID	386653
mRNA Refseq	NM_001014336
Protein Refseq	NP_001014358

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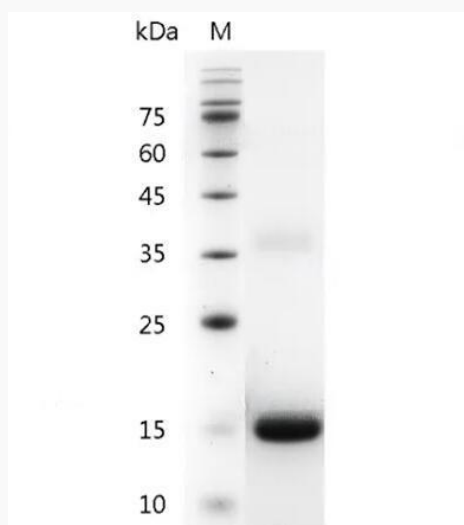
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MIM 609509

UniProt ID Q6EBC2

SDS-PAGE analysis
of recombinant
human IL-31.



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