

## Recombinant Mouse Il31 Protein (Thr24-Cys163), C-His tagged, Animal-free, Carrier-free

Cat. No. Il31-293M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Il31 Protein (Thr24-Cys163) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	Thr24-Cys163
<b>Description</b>	Interleukin 31 (IL-31) is a 15.65 kDa cytokine with 141 amino acid residues. IL-31 is mainly secreted from Th2 cells and binds to a receptor called IL-31RA. Upon binding to IL-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. It also responds to an antigen by facilitating cell-mediated immunity.
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	The protein has a calculated MW of 16.56 kDa. The protein migrates about 17 kDa under reducing condition (SDS-PAGE analysis).
<b>Endotoxin</b>	< 0.1 EU/μg of the protein by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE analysis.

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<b>Storage</b>	<p>This product is stable after storage at:</p> <ul style="list-style-type: none"> <li>-20 centigrade for 12 months in lyophilized state from date of receipt.</li> <li>-20 or -80 centigrade for 1 month under sterile conditions after reconstitution.</li> </ul> <p>Avoid repeated freeze/thaw cycles.</p>
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> 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.
<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

## GENE INFORMATION

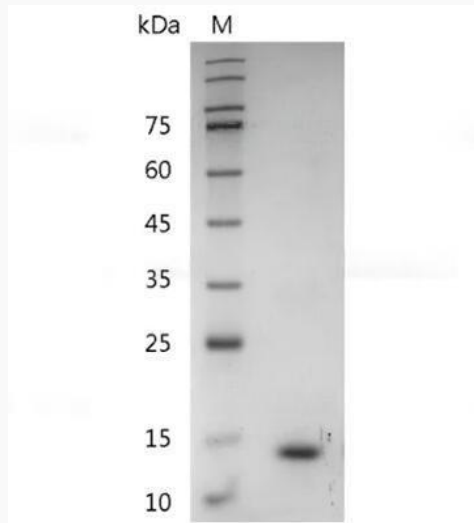
<b>Gene Name</b>	IL31 interleukin 31 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	IL31
<b>Synonyms</b>	IL31; interleukin 31; interleukin-31; IL-31; 1700013B14Rik;
<b>Gene ID</b>	76399
<b>mRNA Refseq</b>	NM_029594
<b>Protein Refseq</b>	NP_083870
<b>UniProt ID</b>	Q6EAL8

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**SDS-PAGE analysis  
of recombinant  
mouse IL-31.**



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