

Mouse IL-31 Recombinant Protein


Catalog Number: 14-8531

Also Known As: Interleukin 31, IL31

RUO: For Research Use Only

Product Information

Contents: Mouse IL-31 Recombinant Protein

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Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in a sterile environment

Source: *E. coli*-expressed protein consisting of amino acids Thr24-Cys163 of mature mouse IL-31 (accession # XM_132344).

Molecular Mass: 18.3 kDa

Purity: Greater than 98% as determined by SDS-PAGE


Endotoxin Level: Less than 0.01 ng/ug cytokine as determined by the LAL assay.

Bioactivity: Testing in progress.

Formulation: Sterile liquid; 0.1 M glycine, pH 3.0 with 1% BSA. 0.22 µm filtered.

 Temperature Limitation: Store at less than or equal to -70°C.

 Batch Code: Refer to Vial

 Use By: Refer to Vial

Description

Interleukin-31 (IL-31) is a member of the gp130/IL-6 family of cytokines that is produced predominantly, but not exclusively, by activated Th2 cells. It binds to a heterodimeric receptor complex consisting of IL-31RA (GPL, GLM-R), a gp130-like molecule, and oncostatin M receptor (OSMR). This receptor complex is expressed constitutively on keratinocytes and epithelial cells and can be upregulated on monocytes by IFN-γ or LPS. IL-31 signaling activates the Jak/STAT signaling pathway, including STAT1, STAT3, and STAT5, as well as the PI3 kinase/AKT and MAP kinase pathways. Mouse IL-31 shares 31% amino acid identity with human IL-31 but it does not bind to the human IL-31 receptor.

Applications Tested

Currently there is no reliable bioassay available for recombinant mouse IL-31.

References

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Chattopadhyay S, Tracy E, Liang P, Robledo O, Rose-John S, Baumann H. Interleukin-31 and oncostatin-M mediate distinct signaling reactions and response patterns in lung epithelial cells. *J Biol Chem.* 2007 Feb 2;282(5):3014-26.

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14-8310 Human IL-31 Recombinant Protein

34-8310 Human IL-31 Recombinant Protein Carrier-Free

34-8531 Mouse IL-31 Recombinant Protein Carrier-Free

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