

**RMCH036**

Recombinant IL-31 (Interleukin-31), Human , AF

 5ug;20ug;100ug;500ug;

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**Synonym/Alternative name(s) :** IL31**Activity:**

Measured by its ability to induce STAT3 activation in U-87 cells.

The ED50 for this effect is &lt;20 ng/mL.

**Protein Description:**

Interleukin-31 (IL-31) is an inflammatory cytokine that helps trigger cell-mediated immunity against pathogens. It has also been identified as a major player in a number of chronic inflammatory diseases, including atopic dermatitis. It is produced by a variety of cells, namely type 2 helper (TH2) T-cells. IL-31 sends signals through a receptor complex made of IL-31RA and oncostatin M receptor  $\beta$  (OSMR $\beta$ ) expressed in immune and epithelial cells. These signals activate three pathways: ERK1/2 MAP kinase, PI3K/AKT, and JAK1/2 signaling pathways.

**Protein Accession :** Q6EBC2.1**Gene ID :** 386653**Expression Sequence:**MSHTLPVRLLRPSDDVQKIVEELQSLSKMLLKDVVEEEKGVLVSQNYTLPCLSPPDAQPNNIHSPAIRAYLKTIRQLDNKSVIDEIIEHLDKLI  
FQDAPETNISVPTDTHECKRFILTISQQFSECMDLALKSLTSGAQQATT with polyhistidine tag at the C-terminus.**Fusion tag :** His-tag?at?the?C-terminus**Species :** Human**Reactivity :** Human**Expression Host :** Escherichia coli**Source :** E. coli**Purity/method:**

&gt;98% as determined by SDS-PAGE. Ni-NTA chromatography

**Endotoxin level:**<0.1 EU per 1  $\mu$ g of the protein by the LAL method.**Calculated Molecular Weight :** 16.78 kDa**Formulation:**

The protein was lyophilized from a solution containing 1X PBS, pH 8.0.

**Reconstitution:**It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100  $\mu$ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.**Shipping :** Blue Ice**Stability and Storage:**

Lyophilized protein should be stored at -20°C for 1 year.

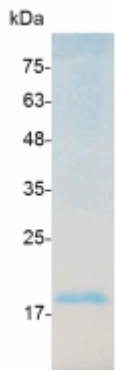
Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

**Category :** Cytokines

**Application :** Cell culture, Elisa

**Image:**



SDS- PAGE analysis of recombinant human IL-31