

## **Product datasheet for TP728260**

### OriGene Technologies, Inc.

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

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant IL-31 (Interleukin-31), Human

Species: Human
Expression Host: E. coli

**Expression cDNA Clone** 

or AA Sequence:

MSHTLPVRLLRPSDDVQKIVEELQSLSKMLLKDVEEEKGVLVSQNYTLPCLSPDAQPPNNIHSPAIRAYLKT IRQLDNKSVIDEIIEHLDKLIFQDAPETNISVPTDTHECKRFILTISQQFSECMDLALKSLTSGAQQATT with

polyhistidine tag at the C-terminus.

Tag: His Tag (C-term)

**Predicted MW:** The protein has a calculated MW of 16.78 kDa. The protein migrates as 18 kDa under

reducing condition (SDS-PAGE analysis).

**Purity:** >98% as determined by SDS-PAGE.

Buffer: The protein was lyophilized from a 0.2 μm filtered solution containing 1X PBS, pH 8.0.

**Bioactivity:** Measured by its ability to induce A549 cells proliferation. The ED₅₀ for this effect is < 40 ng/mL

**Endotoxin:**  $< 0.1 \; EU \; per \; 1 \; \mu g \; of \; the \; protein \; by \; the \; LAL \; method.$ 

**Reconstitution Method:** Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the

lyophilized protein in sterile  $H_2O$  to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved.

Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

**Applications:** Cell culture

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. Avoid repeated freeze/thaw cycles.

UniProt ID: Q6EBC2

Synonyms: IL31

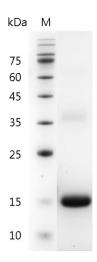




### **Summary:**

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.

# **Product images:**



SDS- PAGE analysis of recombinant human IL-31