

## Datasheet for ABIN988074 IL-31 Protein



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### Overview

Quantity:	1 mg
Target:	IL-31 (IL31)
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active

### Product Details

Sequence:	SHTLPVRLLR PSDDVQKIVE ELQSLSKMLL KDVEEEKGVL VSQNYTLPCL SPDAQPPNNI HSPAIRAYLK TIRQLDNKSV IDEIIEHLDK LIFQDAPETN ISVPTDTHEC KRFILTISQQ FSECMDLALK SLTSGAQQAT
Characteristics:	Fully biologically active when compared to standard. Measured by its ability to induce STAT3 activation in U-87 MG human glioblastoma/astrocytoma cells. 5 ng/mL of rhIL31 can effectively induce STAT3 activation.
Purity:	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	Level Less than 1EU/μg of rHuIL-31 as determined by LAL method

### Target Details

Target:	IL-31 (IL31)
Alternative Name:	Interleukin-31 (IL-31) ( <a href="#">IL31 Products</a> )
Background:	Human IL-31 is a T-cell derived cytokine that shares several structural and functional characteristics with IL-6, Oncostatin M, LIF, and Cardiotrophin-1. It signals through a receptor

## Target Details

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complex comprised of GPL (GP130-like, IL-31RA) and OSMR (Oncostatin M receptor). GPL/OSMR signaling is a strong activator of STAT3 and STAT5, and can also activate STAT1, Jak1, and Jak2 signaling pathways. IL-31 regulated immune responses have been implicated in skin physiology and inflammatory skin diseases. Synonym: . Formulation: Lyophilized from a 0.2µm filtered concentrated solution in PBS,pH 7.4.

**Molecular Weight:** Approximately 15.8 kDa, a single non-glycosylated polypeptide chain containing 141 amino acids.

## Application Details

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**Restrictions:** For Research Use only

## Handling

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**Format:** Lyophilized

**Reconstitution:** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20°C. Further dilutions should be made in appropriate buffered solutions.

**Storage:** 4 °C