

DATA SHEET

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GFH204

Recombinant Human IL-31

Description

Interleukin-31 (IL-31) is an immunoregulatory cytokine that is expressed by activated type 2 T helper (Th2) cells. IL-31 signals through a heterodimer receptor consisting of the IL-31 Receptor A (IL-31RA) and the oncostatin M receptor (OSMR), which are expressed on monocytes, epithelial cells, and keratinocytes. IL-31 promotes allergic reactions and inflammatory skin diseases.

Length141 aaMolecular Weight15.8 kDaSourceE. coliAccession NumberQ6EBC2

Purity ≥95% determined by reducing and non-reducing SDS-PAGE

Specifications

Alternative Names Interleukin-31, interleukin 31, IL31, IL 31

Biological Activity Human IL-31 is fully biologically active when compared to standard. The activity is determined by the ability to

induce STAT3 activation in U-87 MG cells detectable at lower than 25 ng/ml.

Endotoxin Level ≤1.00 EU/µg as measured by kinetic LAL

Formulation Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 20 mM sodium phosphate, 50 mM

sodium chloride, pH 7.5

AA Sequence SHTLPVRLLR PSDDVQKIVE ELQSLSKMLL KDVEEEKGVL VSQNYTLPCL SPDAQPPNNI HSPAIRAYLK

TIRQLDNKSV IDEIIEHLDK LIFQDAPETN ISVPTDTHEC KRFILTISQQ FSECMDLALK SLTSGAQQAT

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Preparation and Storage

Reconstitution Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial

to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with

sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.

Stability and Storage 12 months from date of receipt when stored at -20°C to -80°C as supplied.

1 month when stored at 4°C after reconstituting as directed.

3 months when stored at -20°C to -80°C after reconstituting as directed.