

GFH204AF Recombinant Human IL-31 (Animal-Free)

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.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

Length	141 aa
Molecular Weight	15.8 kDa
Source	E. coli
Accession Number	Q6EBC2
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 (Animal-Free) 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 VSQNYTLPLCL SPDAQPPNNI HSPAIRAYLK TIRQLDNKSV IDEIIEHLDK LIFQDAPETN ISVPTDTHC KRFLITISQQ FSECMDLALK SLTSGAQQAT T

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.