

Recombinant Human Interleukin-31(rHu IL-31)

Catalog No: #70131



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Description

Product Name	Recombinant Human Interleukin-31(rHu IL-31)
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	> 97 % by SDS-PAGE and HPLC analyses.
Target Name	rHu IL-31
Accession No.	accession:Q6EBC2 GeneID:386653
Uniprot	Q6EBC2
GeneID	386653;
Calculated MW	Approximately 15.8 kDa, a sing
SDS-PAGE MW	Sterile Filtered White lyophil
Target Sequence	SHTLPVRLLR PSDDVQKIVE ELQSLSKMLL KDVEEEKGVL VSQNYTLPLCL SPDAQPPNNI HSPAIRAYLK TIRQLDNKSV IDEIIEHLDK LIFQDAPETN ISVPTDTHC KRFILTISQQ FSECMDLALK SLTSGAQQAT T
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH7.4.
Storage	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze thaw cycles.

Background

Human IL-31 gene is located on Chr.12. It expresses the IL-31 protein at low levels in the type 2 helper T cells, which exists in testis, bone marrow, skeletal muscle, kidney, colon, thymus, small intestine and trachea. This protein shares several structural and functional characteristics with IL-6, Oncostatin M, LIF, and Cardiotrophin-1. IL-31 signals through IL-31 receptor A and oncostatin M receptor subunits and can activate STAT3 through receptors and maybe involve in skin immunity. It regulated immune responses have been implicated in skin physiology and inflammatory skin diseases. Human IL-31 shares 24 % a.a. sequence identity in the mature protein with mouse IL-31.

References

1. Sonkoly E, Muller A, Lauerma AI, et al. 2006. J Allergy Clin Immunol, 117: 411-7.
2. Jawa RS, Chattopadhyay S, Tracy E, et al. 2008. J Interferon Cytokine Res, 28: 207-19.
3. Takaoka A, Arai I, Sugimoto M, et al. 2005. Eur J Pharmacol, 516: 180-1.
4. Ohmatsu H, Sugaya M, Suga H, et al. 2012. Acta Derm Venereol, 92: 282-3

Note: This product is for in vitro research use only