

IL-31RA Protein, Human, Recombinant (aa 20-519, hFc)

General Information

Synonyms:	PRO21384;GLM-RMGC125346;GLM-R;IL-31R-alpha;IL-31RA;ZcytoR17;IL-31R- α ;CRL3;GPL;CRL3Glmr;Gp130-like receptor
Protein Construction:	Ala20-Glu519
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8NI17-1
Molecular Weight:	83.8 kDa (predicted). Due to glycosylation, the protein migrates to 110-135 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Immobilized Human IL-31, His Tag at 5μg/ml (100μl/Well) on the plate. Dose response curve for Human IL-31 RA, hFc Tag with the EC50 of 1.15μg/ml determined by ELISA.2. Human IL-31 RA, hFc Tag captured on Protein A chip, can bind Human IL-31, His Tag with an affinity constant of 1.5nM as determined in a SPR assay.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Interleukin-31 receptor A (IL-31RA) is a newly identified type I cytokine receptor, that is related to gp130, the common receptor of the interleukin (IL) -6 family cytokines. IL-31RA forms a functional receptor complex for IL-31

together with the beta subunit of oncostatin M receptor (OSMRbeta). OSMRbeta is expressed in a subset of small-sized nociceptive neurons of adult dorsal root ganglia (DRGs).IL-31 and OSM may thus have redundant functions in the development of OSMRbeta-expressing neurons.

Reference

Bando T, et al. Complete overlap of interleukin-31 receptor A and oncostatin M receptor beta in the adult dorsal root ganglia with distinct developmental expression patterns. *Neuroscience*. 2006 Nov 3;142(4):1263-7doi: 10.1016/j.neuroscience.2006.07.009. Epub 2006 Aug 22. PMID: 16926070.

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