

IL-31RA Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	GPL;GLM-R;CRL3;IL-31RA;IL-31R-alpha;Gp130-like receptor;CRL3Glmr;ZcytoR17
Protein Construction:	Ala20-Glu519
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	XP_045249656.2
Molecular Weight:	58.67 kDa (Predicted); 90-120 kDa (Reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Immobilized Cynomolgus IL-31RA, His Tag at 0.5 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-IL-31 RA Antibody, hFc Tag with the EC50 of 3.3 ng/ml determined by ELISA (QC Test). Cynomolgus IL-31, His Tag immobilized on CM5 Chip can bind Cynomolgus IL-31 RA, His Tag with an affinity constant of 6.83 nM as determined in SPR assay (Biacore T200).
Purity:	> 95% as determined by Bis-Tris PAGE; > 85% as determined by HPLC
Endotoxin:	< 1 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).

Preparation and Storage

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 (OSMR beta). OSMR beta 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.

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