Human IL-31 RA Protein

Cat. No. ILR-HM2RA



Description	
Source	Recombinant Human IL-31 RA Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Ala20-Glu519.
Accession	Q8NI17-1
Molecular Weight	The protein has a predicted MW of 83.8 kDa. Due to glycosylation, the protein migrates to 110-135 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

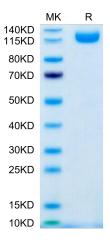
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Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

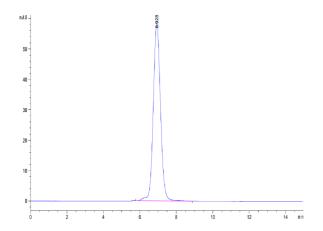
Assay Data

Bis-Tris PAGE



Human IL-31 RA on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human IL-31 RA is greater than 95% as determined by SEC-HPLC.

KAGTUS

Assay Data

ELISA Data

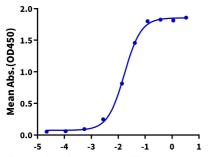
Human IL-31 RA, hFc Tag ELISA 0.5μg Human IL-31, His Tag Per Well

Log Human IL-31 RA, hFc Tag Conc.(μg/ml)

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 1.53µg/ml determined by ELISA (QC Test).

ELISA Data

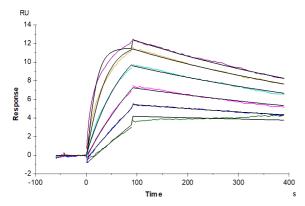
Human IL-31 RA, hFc Tag ELISA 0.5µg Human IL-31 RA, hFc Tag Per Well



Log Biotinylated Anti-IL-31 RA Antibody, hFc Tag Conc.(μg/ml)

Immobilized Human IL-31 RA, hFc Tag at $5\mu g/ml$ (100 $\mu l/well$) on the plate. Dose response curve for Biotinylated Anti-IL-31 RA Antibody, hFc Tag with the EC50 of 16.9ng/ml determined by ELISA.

SPR Data



Human IL-31 RA, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-31, His Tag with an affinity constant of 1.97 nM as determined in SPR assay (Biacore T200).