Human IL-6 R alpha/CD126 Protein

Cat. No. ILR-HM46R

Description

Source	Recombinant Human IL-6 R alpha/CD126 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Leu20-Pro365.
Accession	P08887-1
Molecular Weight	The protein has a predicted MW of 41.4 kDa. Due to glycosylation, the protein migrates to 65-78 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

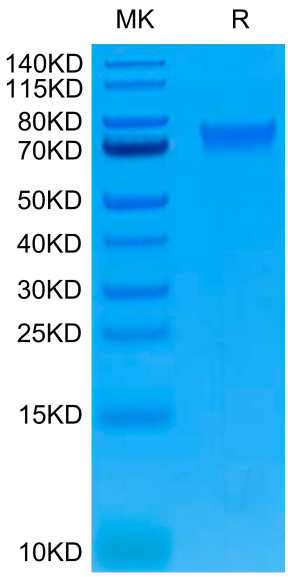
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled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

Background

The multifunctional factor interleukin 6 (IL-6) exerts its activities through binding to a high-affinity receptor complex consisting of two membrane glycoproteins: an 80 kDa component receptor that binds IL-6 with low affinity (IL-6R alpha) and a signal-transducing component of 130 kDa (gp130) that does not bind IL-6 by itself, but is required for high-affinity binding of IL-6 by the complex. Both components of the receptor complex, IL-6R alpha and gp130 have been cloned, sequenced, and expressed.

Assay Data

Bis-Tris PAGE



Human IL-6 R alpha on Bis-Tris PAGE under reduced conditions. The purity is greater than 95%.

SEC-HPLC

Human IL-6 R alpha/CD126 Protein

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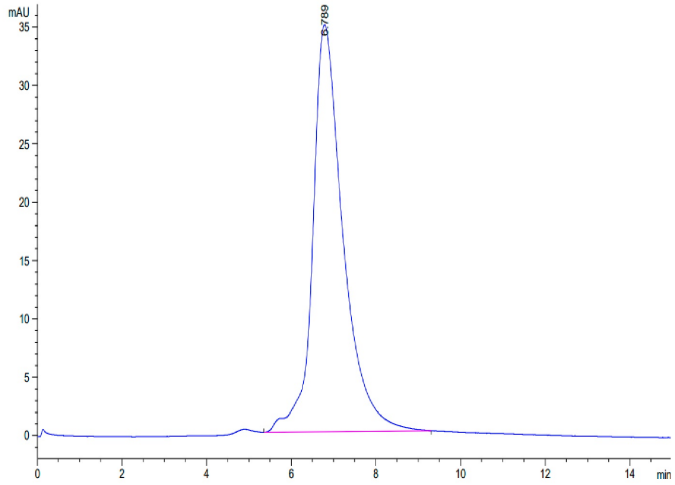
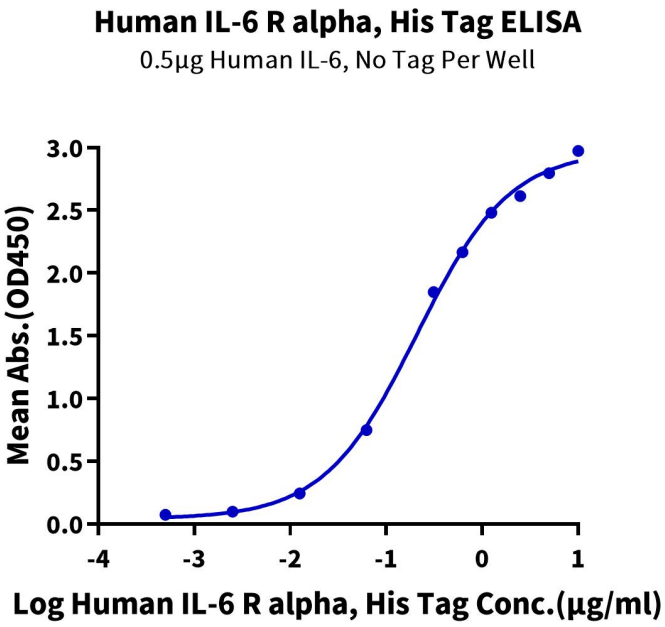
Assay Data



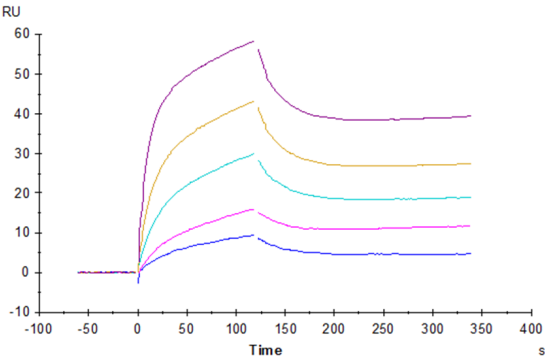
The purity of Human IL-6 R alpha is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human IL-6, No Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Human IL-6 R alpha, His Tag with the EC50 of 0.21μg/ml determined by ELISA (QC Test).

SPR Data



Human IL-6 R alpha, His Tag captured on CM5 Chip via anti-his antibody can bind Human IL-6, No Tag with an affinity constant of 0.22 nM as determined in SPR assay (Biacore T200).