

Human IL-6 Protein

Cat. No. IL6-HM106

Description

Source	Recombinant Human IL-6 Protein is expressed from HEK293 with His tag at the N-terminus. It contains Val30-Met212.
Accession	P05231
Molecular Weight	The protein has a predicted MW of 21.9 kDa. Due to glycosylation, the protein migrates to 24-28 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

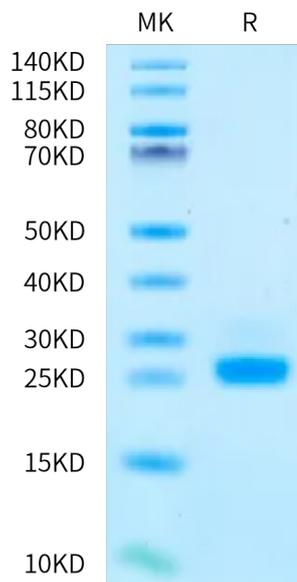
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

IL-6 (Interleukin-6) is a pleiotropic cytokine that acts in the acute phase reaction, inflammation, hematopoiesis, bone metabolism, and cancer progression. Interleukin 6 has been shown to interact with interleukin-6 receptor and glycoprotein.

Assay Data

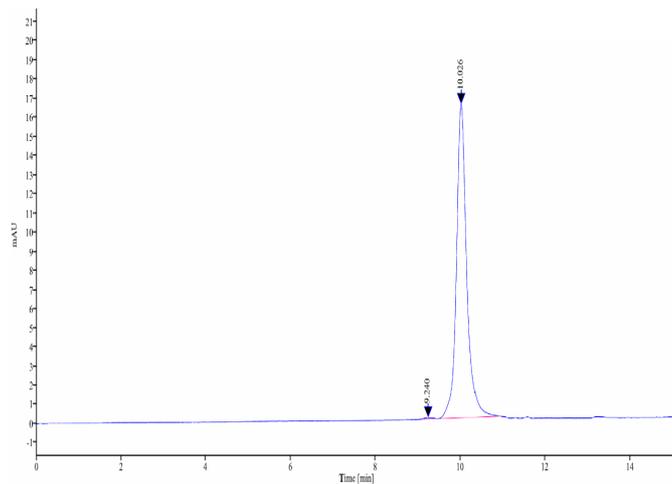
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

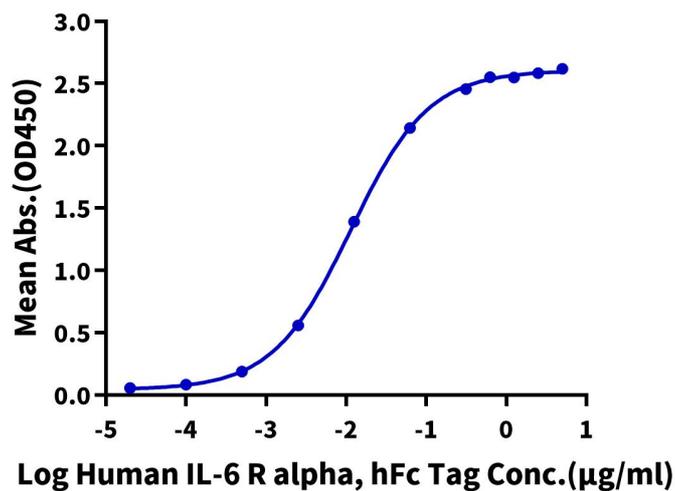


The purity of Human IL-6 is greater than 95% as determined by SEC-HPLC.

ELISA Data

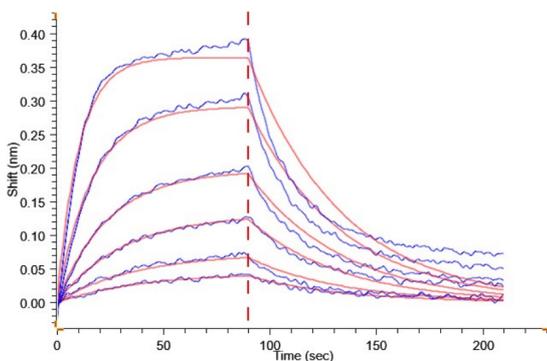
Human IL-6, His Tag ELISA

0.1µg Human IL-6, His Tag Per Well



Immobilized Human IL-6, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human IL-6 R alpha, hFc Tag with the EC50 of 11.4ng/ml determined by ELISA.

BLI Data



Loaded Human IL-6 R alpha, hFc Tag on ProA-Biosensor can bind Human IL-6, His Tag with an affinity constant of 62.50 nM as determined in BLI assay .