### **Human IL-6 Protein**

### Cat. No. IL6-HE001



Description	
Source	Recombinant Human IL-6 is expressed from E.coli without tag.
	It contains Val30-Met212.
Accession	P05231
Molecular Weight	The protein has a predicted 20.8 kDa same as Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 90% as determined by HPLC

### Formulation and Storage

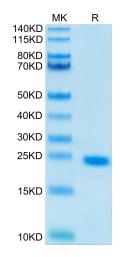
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please

### 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.

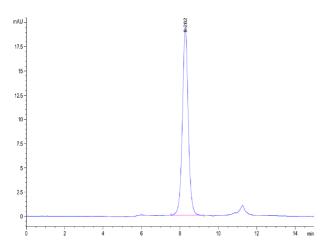
### **Assay Data**

### Tris-Bis PAGE



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

### **SEC-HPLC**



minimize freeze-thaw cycles.

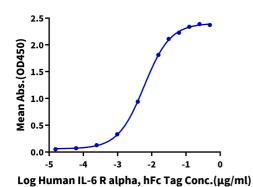
The purity of Human IL-6 is greater than 90% as determined by SEC-HPLC.

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### **Assay Data**

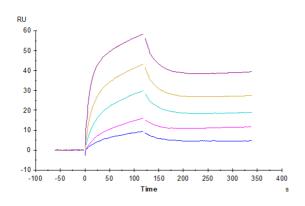
### **ELISA Data**

## **Human IL-6, No Tag ELISA** 0.2μg Human IL-6, No Tag Per Well



Immobilized Human IL-6 at 2µg/ml (100µl/Well) on the plate. Dose response curve for Human IL-6 R alpha, hFc Tag with the EC50 6.0ng/ml determined by ELISA

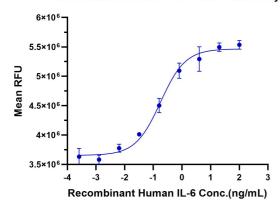
### **SPR Data**



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).

### **Cell Based Assay**

### **Recombinant Human IL-6 Protein Bioactivity**



Measured in a cell proliferation assay using TF1 human erythroleukemic cells. The ED50 for this effect is 0.1 - 0.5 ng/mL (QC Test).