

Human Hyper IL-6 Protein

Cat. No. HIL-HM106



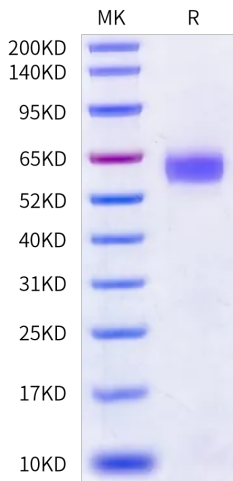
Description	
Source	Recombinant Human Hyper IL-6 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Pro113-Ala323 (sIL-6R) and Val30-Met212 (IL-6).
Accession	P08887-2(sIL-6R) & P05231(IL-6)
Molecular Weight	The protein has a predicted MW of 47.46 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 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 20mM MES, 150mM NaCl, 8% trehalose (pH 6.0).
Reconstitution	Dissolve the lyophilized protein in 20mM MES (pH 6.0). 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.	

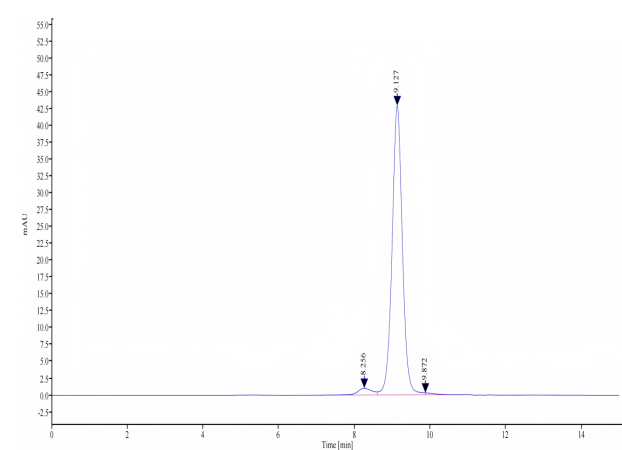
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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

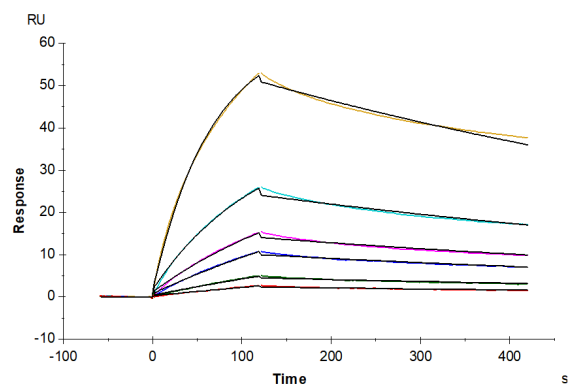
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Assay Data

SPR Data



Human Hyper IL-6, His Tag immobilized on CM5 Chip can bind Human gp130, His Tag (Cat. GP1-HM130) with an affinity constant of 8.19 nM as determined in SPR assay (Biacore T200).