


## Human IL-6 protein

Cat #: PRP1012

Size: 5µg/20µg/100µg/1mg

### Product Information

	<b>Product Name:</b> Human IL-6 protein		
<b>REF</b>	<b>Catalog Number:</b> PRP1012	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> > 95 % as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> E. coli
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** Interleukin-6 (IL-6) is a multifunctional  $\alpha$ -helical cytokine that regulates cell growth and differentiation of various tissues, which is known particularly for its role in the immune response and acute phase reactions. IL-6 protein is secreted by a variety of cell types including T cells and macrophages as phosphorylated and variably glycosylated molecule. It exerts actions through its heterodimeric receptor composed of IL-6R that lacks the tyrosine/kinase domain and binds IL-6 with low affinity, and ubiquitously expressed glycoprotein 130 (gp130) that binds the IL-6. IL-6R complex with high affinity and thus transduces signals. IL-6 is also involved in hematopoiesis, bone metabolism, and cancer progression, and has been defined an essential role in directing transition from innate to acquired immunity.

**Sequence:** Amino acid sequence derived from mature form of human IL6 (NP\_000591.1) (Val 30-Met 212) was expressed, with an initial Met at the N-terminus.

**Protein length:** The recombinant human IL6 consists of 187 amino acids and migrates with an apparent molecular mass of 20.6 kDa as estimated in SDS-PAGE under reducing conditions.

**Formulation:** Lyophilized from sterile 150 mM, NaCl 20 mM Tris, pH 8.0.

**Storage Instructions:** Lyophilized Human IL6 protein product should be stored desiccated below -20°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Human IL6 protein using the buffer we provided not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

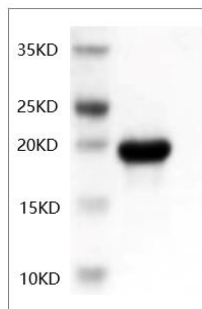


Fig. SDS-PAGE analysis of Human IL-6 protein.

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