


Human IL-6 protein

Cat #: PRP1012

Size: 5µg/20µg/100µg/1mg

Product Information

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

Background: Interleukin-6 (IL-6) is a multifunctional α -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 the 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 IL-6 (NP_000591.1) (Val 30-Met 212) was expressed, with an initial Met at the N-terminus.

Protein length: The recombinant human IL-6 consists of 187 amino acids and migrates with an apparent molecular mass of 20.6 kDa as estimated in SDS-PAGE under reducing conditions.

Biological Activity: Immobilized Human IL-6 protein at 2 µg/mL (100 µl/well) can bind Human IL-6 receptor, The EC₅₀ of Human IL-6 receptor is 440 ng/mL; Measured by its ability to induce proliferation in TF-1 cells. The ED₅₀ for this effect is 0.1138 ng/mL.

Formulation: Lyophilized from sterile 150mM NaCl 20mM 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 IL-6 protein in sterile ddH₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

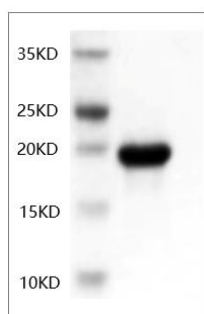


Fig. SDS-PAGE analysis of Human IL-6 protein.

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