

Recombinant Protein Technical Manual Recombinant Human IL-6/Interleukin-6 Protein (Active) RPES1238

Product Data:		
Product SKU: RPES1238		Size: 20µg
Species: Human		Expression host: E. coli
Uniprot: NP_000591.1		
Protein Information:		
Molecular Mass:	20.3 kDa	
AP Molecular Mass:	20.3 kDa	
Tag:		
Bio-activity:	1. Measured by its binding ability in a functional ELISA. Immobilized recombinant human IL-6 at 8 μ g/ml (100 μ l/well) can bind recombinant human IL6R with a linear range of 1.25-20.0 ng/mL.2. Measured in a cell proliferation assay using TF human erythroleukemic cells. The ED50 for this effect is 0.75-3 ng/mL. The specific activity of Recombinant Human IL-6 is approximately 0.35 × 105 IU/ μ g.3. Measured by its binding ability in a functional ELISA. 2. Immobilized human IL6 at 10 μ g/mL (100 μ L/well) can bind human IL6R-His, the EC50 of human IL6R-His is 0.1-0.5 μ g/mL.	
Purity:	> 95 % as determined by reducing SDS-PAGE.	
Endotoxin:	Please contact us for more information.	
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.	
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.	
Formulation:	Lyophilized from sterile PBS, pH 7.4	
		e, mannitol and 0.01% Tween80 are added as on. Specific concentrations are included in the
	2. Please contact us for any co	ncerns or special

Application: Cell Culture, Functional ELISA

Synonyms:Interleukin-6; IL-6; B-Cell Stimulatory Factor 2; BSF-2; CTL Differentiation Factor;
CDF; Hybridoma Growth Factor; Interferon Beta-2; IFN-Beta-2; IL6;
IFNB2;BSF2;HGF;HSF;IFNB2

Sequence: Val 30-Met 212

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.