

Animal, Bacterial & Viral Free - Low Endotoxin - Ultra Pure - High BioActivity
IL6

Recombinant Human Interleukin-6 HQ Tagged

Catalog No.	CRI253A CRI253B CRI253C CRI253D	Quantity:	10 µg 50 µg 1 mg 100 µg
Description:	Recombinant human IL-6 contains 185 amino acids and a 16 a.a. HQ tag for a total length of 201 aa and has a predicted molecular mass of 23.1 kDa. As a result of glycosylation, the recombinant protein migrates with an apparent molecular mass of 23-24 kDa in SDS-PAGE.		
Source:	Produced in the endosperm tissue of barley grain (<i>Hordeum vulgare</i>), that exhibits up to 50 times less protease activity than <i>E. coli</i> or mammalian cells. Barley seed is void of any endotoxin, human or animal viral contaminants		
Molecular Weight:	Recombinant human IL-6 contains 185 amino acids and a 16 a.a. HQ tag for a total length of 201 a.a. and has a predicted molecular mass of 23.9 kDa. As a result of glycosylation, the recombinant protein migrates with an apparent molecular mass of 23		
Formulation:	Sterile filtered through a 0.2 µm filter. Lyophilized from 50 mM MES pH 6.5, 500 mM NaCl		
Purity:	Greater than 95% by SDS-PAGE gel analysis. Purified product carries no pyrogenic or pro-inflammatory contaminants, as assayed with monocyte activation test using Human 10-plex Cytokine Assay measuring IL-6, TNF-alpha and IL-1beta induction.		
Endotoxin Level:	Endotoxin level is less than 0.005ng per µg of product (0.05EU/µg) as measured by turbidimetric kinetic assay.		
Biological Activity:	Bioactivity is assayed by measuring the dose dependent effect of human IL-6 on proliferation of TF-1 cells. The ED ₅₀ for this batch of recombinant human IL-6 is 0.20 ng/ml, corresponding to 5.0 x 10 ⁶ U/mg specific activity. Optimal concentration should be determined for specific applications and cell lines.		
Reconstitution:	Centrifuge vial prior to opening. First add sterile distilled water to the vial to fully solubilize the protein to a concentration not less than 100 µg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.		
Storage & Stability:	Store lyophilized protein at -20°C to -80°C. Reconstituted protein is stable for 1 week at 2-4°C. For long term storage, aliquot and store at -20°C to -80°C with a carrier protein (0.1% HSA or BSA) as a stabilizer. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

