E13-016

Recombinant Human IL-6 protein

Catalog Number: E13-016-1, E13-016-2

Amount: 10μg, 50μg

Product description: Human IL-6 produced in E. coli is non-glycosylated polypeptide chain containing 186 amino acids (3-186 a.a; predicted MW=21.1kDa.) Protein was purified by anion exchange chromatography and gel filtration chromatography. Purity is greater than 95% by SDS-PAGE and Coomassie blue staining (Figure 1).

Background: IL-6 (interleukin 6) or B-cell stimulatory factor 2, is a pleotropic, pro-inflammatory cytokine that stimulates hepatocytes to produce acute phase proteins, and induces growth and differentiation of B cells, T cells, and hepatocytes. IL-6 is predominately produced by T cells, macrophages, fibroblasts, endothelial cells and keratinocytes. IL-6 is considered as a potential marker of adipocyte differentiation. IL-6 binds to IL-6Rα that through association induces gp130 homodimerization which triggers the Jak/STAT cascade and the SHP2/Erk Map kinase cascade.

GenBank accession number: AAD13886

Amino acid sequence: MGPVPPGEDSKDVAAPHRQPLTSSERIDKQIRYILDGISALRKETCNAEKDGQSGFNEETCLV KIITGLLEFEVYLEYLQNRFESSEEQARAVQMSTKVLIQFLQKKAKNLDAITTPDPTTNASLLTK LQAQNQWLQDMTTHLILRSFKEFLQSSLRALRQM

Formulation: Lyophilized from a 0.22μm filtered solution at a concentration of 1mg/ml in PBS.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water to a concentration of 1.0 mg/ml.

Shipping&Stablity: The Product is shipped at ambient temperature. Upon reconstitution, the preparation is stable for up to 1 month at 2-8°C. For long term storage, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

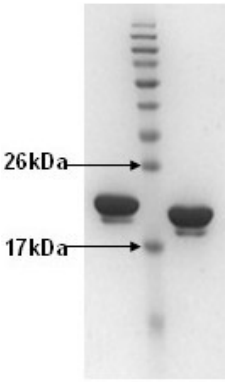

Figure 1. The purity of recombinant protein human IL-6 (E13-016) was determined by 15% SDS-PAGE of 3μg non-reduced (lane 1) and reduced (lane 3) recombinant hIL-6.

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