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## Recombinant Human Interleukin-6

**Description:** Interleukin-6 (IL-6) is a potent lymphoid cell growth that affects B-lymphocytes, T-lymphocytes and hybridoma cells. It will also affect cytotoxic T-cells in combination with other factors such as IL-2 and  $\gamma$ -interferon. Recombinant human IL-6 produced in E. coli is a single, non-glycosylated polypeptide having a molecular mass of 21 kDa and containing 184 amino acid residues.

<b>Source:</b>	E. coli
<b>Molecular Weight:</b>	21 kDa
<b>Purity:</b>	> 98% by SDS-PAGE and Silverstain
<b>Endotoxin level:</b>	< 0.1 ng per $\mu\text{g}$ (IEU/ $\mu\text{g}$ ) of rh IL-6
<b>Stabilizer:</b>	none
<b>Buffer:</b>	PBS
<b>Formulation:</b>	lyophilized (freeze-dried)

**Biological Activity:** The  $\text{ED}_{50}$  as determined by the dose-dependent stimulation of murine hybridoma B9 cells is  $\leq 0.1$  ng/ml corresponding to a specific activity of  $\geq 1 \times 10^7$  units/mg.

**Reconstitution:** The lyophilized rh IL-6 is soluble in water and most aqueous buffers. The lyophilized powder should be reconstituted in water to a concentration not less than 0.1 mg/ml. This solution can be stored at 4°C for future use or diluted into other buffered solutions. Further dilutions should be made into buffer containing carrier protein or medium containing serum.

**Stability:** The lyophilized rh IL-6, although stable at room temperature for 3 weeks, is best stored desiccated at -20°C. Reconstituted rh IL-6 should be stored at 4°C between 2-7 days and in working aliquots at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HAS or BSA). **Avoid repeated freeze-thaw cycles.**

**Usage:** Human IL-6 is offered for research use. Not for drug use. **Not for human use.**

**Catalogue number:** 200-030-DC

**Size:** 50  $\mu\text{g}$

**Range:** 0.1-10.0 ng/ml

**\*\* please note : always centrifuge vials before opening \*\***