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## Interleukin-6 (IL-6)

10 µg

**For Research Use Only. Not for Use in Diagnostic Procedures.**

| MW (kDa): | UniProt ID: | Entrez-Gene Id: |
|-----------|-------------|-----------------|
| 23.7      | #P05231     | 3569            |

### Background

Interleukin-6 (IL-6) is a pleiotropic cytokine with central roles in immune regulation, inflammation, hematopoiesis, and oncogenesis. Its biological activities are shared by other IL-6 family members, such as leukemia inhibitory factor and oncostatin M (1). To exert its biological effects, IL-6 must bind to the IL-6 receptor (IL-6R), composed of two alpha chains (IL-6R $\alpha$ , 80 kDa) and two beta chains (IL-6R $\beta$  or gp130, 130 kDa). Two moieties of IL-6 and two pairs of these receptor chains form a functional hexameric IL-6R complex. The subsequent intracellular signaling events are activated via gp130, which is the common signal transducer of cytokines related to IL-6. Activation of the IL-6R stimulates at least three major signaling pathways: JAK/STAT, PI-3 kinase, and MAPK signaling pathways (2,3).

### Purity

>98%

### Source / Purification

Human Recombinant Protein

### Background References

1. Ito, H. (2003) *Curr Drug Targets Inflamm Allergy* 2, 125-30.
2. Taniguchi, T. (1995) *Science* 268, 251-5.
3. Boulton, T.G. et al. (1994) *J Biol Chem* 269, 11648-55.

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