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Recombinant Human sIL-6Rα

Catalog # PBG10415

Specification

Recombinant Human sIL-6Rα - Product Information

Recombinant Human sIL-6Rα - Additional Information

Description
IL-6 mediates its biological effects through the type I IL-6 receptor system that consists of two chains, IL-6Rα and gp130. The IL-6Rα chain is the binding component specific to IL-6; while the gp130 only transmits signals of IL-6 when bound to IL-6Rα. The gp130 also can transmit signals from LIF, OSM, CNTF, IL-11 and CT-1 in conjunction with other receptor subunits. The low-affinity binding site for IL-6 is composed of IL-6Rα alone. IL-6Rα is expressed in a wide range of cells including T cells, fibroblasts and macrophages. Soluble IL-6Rα which consists of only the extracellular domain of the IL-6Rα chain, acts as an agonist of IL-6 activity at low concentrations. Recombinant human sIL-6Rα is a 37.6 kDa protein consisting of the extracellular domain of the IL-6Rα chain (338 amino acid residues).

BiologicalActivity
The ED₅₀ was determined by its ability to intensify the IL-6 induced growth inhibition of murine M1 cells is ≤ 5.0 ng/ml, in the presence of 20 ng/ml of rhIL-6.

Authenticity
Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin
Endotoxin level is <0.1 ng/ µg of protein (<1EU/ µg).

Protein Content
Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage
-20°C

Precautions
Recombinant Human sIL-6Rα is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Human sIL-6Rα - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Recombinant Human sIL-6Rα - Images