

## Recombinant Human Soluble Interleukin-6 (IL-6) Receptor

<b>CATALOG #:</b>	4598-20
<b>AMOUNT:</b>	20 µg
<b>LOT #:</b>	_____
<b>SOURCE:</b>	<i>E. coli</i>
<b>PURITY:</b>	>98% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng/µg of sIL-6 Receptor
<b>MOL. WEIGHT:</b>	37.6 kDa
<b>FORMULATION:</b>	Lyophilized from 1X PBS, pH 7.2

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in 1X PBS, pH 7.2 to a concentration of 0.1-1 µg/µl. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

### STORAGE CONDITIONS:

The lyophilized sIL-6 Receptor should be stored desiccated below 0°C. Reconstituted sIL-6 receptor should be stored at working aliquots at -20°C.

### DESCRIPTION:

The IL-6 receptor system consists of two chains, IL-6R alpha and gp130. The IL-6R alpha is the binding component specific to the IL-6, but does not transduce a signal alone. On the contrary, gp130 transmits signals not only of IL-6, but also IL-6 related cytokines, i.e. LIF, OSM, CNTF, IL-11 and CT-1. The low affinity binding sites for IL-6 is composed of IL-6R alpha alone. At low concentrations, soluble IL-6R alpha acts as an agonist of IL-6 activity. Recombinant human sIL-6R alpha is a 37.6 kDa protein, consisting of the extra cellular domain of the sIL-6R alpha chain (338 amino acids).

### BIOLOGICAL ACTIVITY:

The ED<sub>50</sub> as 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.

**FOR RESEARCH USE ONLY! Not to be used in human subjects!**

### RELATED PRODUCTS:

#### Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

#### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

#### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

#### Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

#### Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

#### Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

#### Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

#### Growth Factors and Cytokines

#### Monoclonal and Polyclonal Antibodies