

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

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| <b>CATALOG NO:</b>  | 4598-20   |
| <b>AMOUNT:</b>      | 20 µg   |
| <b>SOURCE:</b>      | CHO cells   |
| <b>PURITY:</b>      | >98% by SDS-PAGE and HPLC analyses<br>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.**

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