

## IL-6R Protein, Human, Recombinant

### General Information

Synonyms:	IL-6R1;CD126;IL-6RA
Protein Construction:	Leu20-Phe365
Species:	Human
Expression Host:	CHO Cells
Accession:	P08887
Molecular Weight:	54~56 kDa (Reducing conditions)

### QC Testing

Biological Activity:	ED 50 < 0.2 µg/ml, measured in a cell proliferation assay using M1 cells in the presence of 10.0 ng/ml human IL-6.
Purity:	> 95% as determined by SDS-PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.2 EU/µg of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Interleukin-6 Receptor Alpha, also known as IL-6RA, IL-6R1 and CD126, belongs to the type I cytokine receptor family. It is mainly expressed on T cells, fibroblasts and macrophages. IL-6RA couples with gp130 to form the IL-6 receptor; IL-6RA binds specifically to IL-6 and depends on gp130 to transmit signals. IL-6RA dysfunction has been correlated with the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases and prostate cancer. Soluble IL-6RA, which consists of only the extracellular domain of IL-6RA, acts as an agonist of IL-6 activity.

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