

## IL-6 Protein, Human, Recombinant (His & Avi), Biotinylated

### General Information

Protein Construction:	Val30-Met212
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P05231
Molecular Weight:	23.72 kDa (Predicted); 25-30 kDa (Reducing condition, due to glycosylation)

### QC Testing

Biological Activity:	Immobilized Human IL-6 R alpha, hFc Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Human IL-6, His-Avi Tag with the EC50 of 0.18 µg/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS, 200 mM L-arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled 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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

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

IL-6 (Interleukin-6) is a pleiotropic cytokine that acts in the acute phase reaction, inflammation, hematopoiesis, bone metabolism, and cancer progression. Interleukin 6 has been shown to interact with interleukin-6 receptor and glycoprotein.

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