

## IL-6 Protein, Human, Recombinant V2

### General Information

Synonyms: interleukin 6;IL-6;HSF;Interleukin-6;HGF;IFNB2;BSF2

Protein Construction: Val30-Met212

Species: Human

Expression Host: E. coli

Accession: P05231

Molecular Weight: 20.8 kDa (Predicted and reducing conditions)

### QC Testing

Biological Activity: 1. Immobilized Human IL-6 at 0.5 µg/ml (100 µl/Well) on the plate. Dose response curve for Human IL-6 R alpha, hFc Tag with the EC50 48.7 ng/ml determined by ELISA.<br>2. Human IL-6 R alpha, His Tag captured on CM5 Chip via anti-his antibody can bind Human IL-6, No Tag with an affinity constant of 0.22 nM as determined in SPR assay (Biacore T200).<br>3. Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 0.1-0.5 ng/mL (QC Test).

Purity: > 95% as determined by Tris-Bis PAGE; > 90% as determined by HPLC

Endotoxin: < 1.0 EU/µg of the protein as determined by the LAL method.

Formulation: Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### 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:

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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