

## IL-6 Protein, Rat, Recombinant (HEK293)

### General Information

Synonyms: MGI-2;HSF;HPGF;B cell differentiation factor;IFN- $\beta$ 2;26 kDa protein;BCDF;IFN- $\beta$ 2;BSF-2;IL6

Protein Construction: Phe25-Thr211

Species: Rat

Expression Host: HEK293 Cells

Accession: P20607-1

Molecular Weight: 21~26 kDa (Reducing conditions)

### QC Testing

Biological Activity: ED 50 < 3.0 pg/ml, measured by a cell proliferation assay using 7TD1 Cells.

Purity: > 95% as determined by SDS-PAGE

Endotoxin: < 0.2 EU/ $\mu$ g of protein as determined by the LAL method.

Formulation: Lyophilized from a 0.2  $\mu$ m 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  $\mu$ g/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.

#### Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

### Protein Background

Interleukin-6 (IL-6), also known as BSF-2, CDF and IFNB2, is a pleiotropic cytokine that participates in both pro-inflammatory and anti-inflammatory responses. It is produced mainly by T cells, macrophages, monocytes, endothelial cells and muscle cells. IL-6 binds to IL-6 receptor (IL-6R) to trigger the association of IL-6R with gp130, inducing signal transduction through JAKs and STATs. The biological functions of IL-6 are diverse. It stimulates B cell differentiation and antibody production, myeloma and plasmacytoma growth, and nerve cell differentiation. It also acts as a myokine, produced by muscle cells in response to muscle contraction and released into the blood stream to help break down fats and improve insulin resistance.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_email:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481