

IL-6 Protein, Human, Recombinant (CHO)

General Information

Synonyms:	IFN-beta-2;BSF-2;CDF;IL6;IFNB2
Protein Construction:	Pro29-Met212
Species:	Human
Expression Host:	CHO Cells
Accession:	Q75MH2
Molecular Weight:	15~25 kDa (Reducing conditions)

QC Testing

Biological Activity:	ED 50 < 1.0 ng/ml, measured in a cell proliferation assay using TF-1 cells.
Purity:	> 95% as determined by SDS-PAGE
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. 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 (IL-6), also known as BSF-2, CDF and IFNB2, is a pleiotropic cytokine that acts 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, as well as nerve cell differentiation. It also acts as a myokine, produced by muscle cells in response to muscle contraction, to be released to 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_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481