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## Recombinant human IL-6 protein

Catalog Number: ATGP0352

### **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

30-212aa

#### UniProt No.

P05231

#### **NCBI Accession No.**

NP 000591.1

#### **Alternative Names**

Interleukin-6, B-cell stimulatory factor 2, BSF-2, CTL differentiation factor, CDF, Hybridoma growth factor, Interferon beta-2, IFN-beta-2, IFNB2, HGF, HSF

### **PRODUCT SPECIFICATION**

## **Molecular Weight**

23.1 kDa (204aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 95% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

## **Biological Activity**

Measured in a cell proliferation assay using TF-1 human erythroleukemic cell. The ED50 range ≤ 0.8ng/ml.

#### Tag

His-Tag

## **Application**

SDS-PAGE, Bioactivity

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**



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## Recombinant human IL-6 protein

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## **Description**

Interleukin-6, as known as IL-6, is an immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. It is also a 'myokine, ' a cytokine produced from muscle, and is elevated in response to muscle contraction. IL-6 acts as both a pro-inflammatory and anti-inflammatory cytokine. Smooth muscle cells in the tunica media of many blood vessels also produce IL-6. It is mediated through its inhibitory effects on TNF-alpha and IL-1, and activation of IL-1ra and IL-10. Recombinant interleukin-6 was expressed in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

#### **Amino acid Sequence**

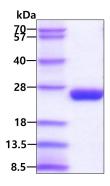
<MGSSHHHHHH SSGLVPRGSH M>VPPGEDSKD VAAPHRQPLT SSERIDKQIR YILDGISALR KETCNKSNMC ESSKEALAEN NLNLPKMAEK DGCFQSGFNE ETCLVKIITG LLEFEVYLEY LQNRFESSEE QARAVQMSTK VLIQFLQKKA KNLDAITTPD PTTNASLLTK LQAQNQWLQD MTTHLILRSF KEFLQSSLRA LRQM

#### **General References**

Ishihara, et al. (2002) Cytokine Growth Factor Rev. 13(4-5):357-68. Vgontzas AN, et al. (2005) Neuroimmunomodulation.12, 131-40.

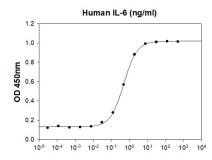
## **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

### **Biological Activity**



Human IL-6 stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED50 range  $\leq$  0.8ng/ml.

