

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 $\leq$ 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

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- α 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

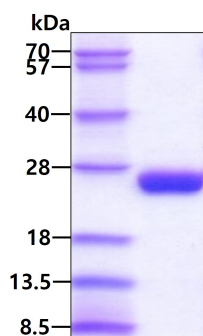
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ESSKEALAEN NLNLPKMAEK DGCFQSGFNE ETCLVKITG LLEFEVYLEY LQNRFESSEE QARAVQMSTK VLIQFLQKKA
KNLDAITTPD PTTNASLLTK LQAQNWQLQD MTTHLILRSF KEFLQSSLRA LRQM

General References

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

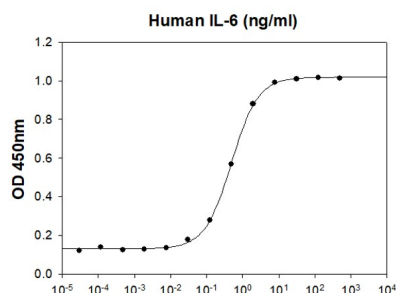
DATA

SDS-PAGE



3 μ g 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 ≤ 0.8 ng/ml.