

Interleukin-6 Recombinant Protein | IL-6 recombinant protein

Mouse Interleukin-6 Recombinant

CATALOG #	HOST
AAA76090	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

Interleukin-6; Mouse Interleukin-6 Recombinant; il-6; il6; interleukin-6; B-cell stimulatory factor; bsf; IL-6 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>97%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant Interleukin-6 was lyophilized from a 0.2 µm filtered PBS solution.
Sequence	MKFLSARDFH PVAFLGLMLV TTTAFPTSQV RRGDFTEDTT PNRPVYTTSQ VGGLITHVLW EIVEMRKELC NGNSDCMNNND DALAENNLKL PEIQRNDGCV QTGYNQEICL LKISSGLLEY HSYLEYMKNN LKDNKKDKAR VLQRDTETLI HIFNQEVKDL HKIVLPTPIS NALLTDKLES QKEWLRTKTI QFILKSLEEF LKVTLRSTRQ T
Source	Optimized DNA sequence encoding Mouse Interleukin-6 mature chain was expressed in Escherichia Coli.
Biological Activity	The ED(50) determined by the dose-dependent proliferation of murine 7TD1 cells, was found to be < 0.01 ng/ml cells was found to be in the range of 1x10 ⁸ U/mg.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug(1EU/ug).
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Preparation and Storage	The lyophilized protein is stable for at least 2 years from date of receipt at -20° C. Upon reconstitution, this cytokine can be stored in working aliquots at 2°-8° C for one month, or at -20° C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for IL-6 recombinant protein	IL6 is produced by many different cell types. The main sources in vivo are stimulated monocytes, fibroblasts, and endothelial cells. Macrophages, T-cells and B-lymphocytes, granulocytes, smooth muscle cells, eosinophils, chondrocytes, osteoblasts, mast cells, glial cells, and keratinocytes also produce IL6 after stimulation. IL6 is a member of a family of cytokines, which also includes LIF, CNTF, Oncostatin M, IL11, and CT- 1. All known members of the IL6 cytokine family induce hepatic expression of acute phase proteins. The IL6 receptor is expressed on T-cells, mitogen-activated B-cells, peripheral monocytes and some macrophage- and B-cell derived tumor cell types. It is not expressed in resting B-cells but in resting T- cells. The IL6 receptor is a strongly glycosylated protein of 80 kDa and a length of 449 amino acids. It has been designated CD126.
Product Categories/Family for IL-6 recombinant protein	Cytokines

References	• IL-6 protects against hyperoxia-induced mitochondrial damage via bcl-2–induced bak interactions with mitofusions .<i>Am. J. Respir. Cell Mol. Biol.</i>, Oct 2009; 41: 385 - 396. • <i>long-term safety and efficacy of tocilizumab, an anti-IL-6 receptor monoclonal antibody, in monotherapy, in patients with rheumatoid arthritis (the stream study) : evidence of safety and efficacy in a 5-year extension study</i> .<i>Ann Rheum Dis</i>, Oct 2009; 68: 1580 - 1584. • <i>the second bovine β-galactoside-2,6-sialyltransferase (st6gal ii) : genomic organization and stimulation of its in vitro expression by IL-6 in bovine mammary epithelial cells</i> .<i>Glycobiology</i>, Oct 2009; 19: 1082 - 1093. • IL-6 -174g/c promoter polymorphism in acute appendicitis .<i>Lab Med</i>, Oct 2009; 40: 600 - 603. • <i>cell surface-bound il-1 is an upstream regulator of the senescence-associated IL-6/il-8 cytokine network</i> .<i>PNAS</i>, Sep 2009; 10.1073/pnas.0905299106.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	13624311
NCBI GeneID	16193
NCBI Accession #	NP_112445.1
NCBI GenBank Nucleotide #	NM_031168.1
UniProt Accession #	P08505; Q3UCQ0; Q8BN26; Q0PMN1; Q3U8J8
Molecular Weight	Native Mouse Interleukin-6, generated by the proteolytic removal of the signal peptide and propeptide, the molecule has a calculated molecular mass of approximately 22 kDa. Recombinant IL-6 is a disulfide-linked homodimeric protein consisting of 188 amino
NCBI Official Full Name	interleukin-6
UniProt Protein Name	Interleukin-6
UniProt Gene Name	IL6
UniProt Synonym Gene Names	IL-6; IL-6
UniProt Entry Name	IL6_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/il6-recombinant-protein-e-coli/76090>