

Interleukin 6 (IL6) Active Protein | IL6 active protein

Active Interleukin 6 (IL6)

CATALOG # AAA146610	HOST 293F cell	APPLICATIONS Activity Assay, Cell Culture
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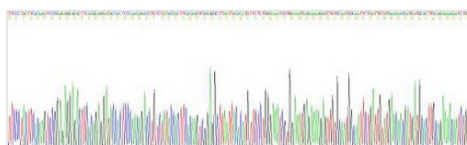
PRODUCT SYNONYMS

Interleukin 6 (IL6); Active Interleukin 6 (IL6); MGI2-A; MGI2A; HGF; BSF2; HSF; IFNB2; B-Cell Stimulatory Factor-2; Hybridoma/Plasmacytoma Growth Factor; Hepatocyte Stimulating Factor; Cytotoxic T-Cell Differentiation Factor; IL6 active protein

PRODUCT SPECIFICATIONS

Host	293F cell
Purity/Purification	> 95%
Form/Format	Freeze-dried powder
Sequence Length	165
Applicable Applications for IL6 active protein	Activity Assay, Cell Culture
Fragment	Phe25~Thr211
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Organism Species	Mouse
Isoelectric Point	6.5
Usage	Reconstitute in 20mM Tris, 150mM NaCl (PH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



Application Data

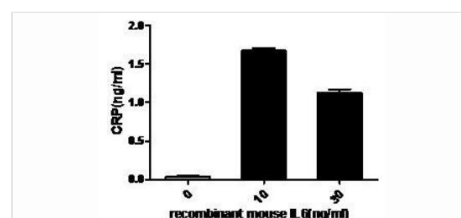


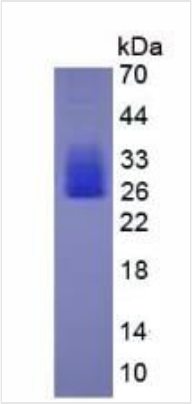
Figure 1. CRP levels in the cell supernatant of HepG2 cells regulated by IL6.

Application Data

Sample (cell supernatant of HepG2 cells)	O.D. value	Corrected	Concentration of CRP (ng/mL)
stimulated with IL6 (10ng/mL)	0.514	0.453	1.61
stimulated with IL6 (30ng/mL)	0.396	0.335	1.13
unstimulated	0.128	0.067	0.03

Table 1. CRP levels in the cell supernatant of HepG2 cells regulated by IL6.

Application Data



SDS-PAGE

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Activity

Interleukin-6 (IL-6), a pro-inflammatory cytokine and an anti-inflammatory myokine, plays important roles in the acute phase reaction, inflammation, hematopoiesis, bone metabolism, and cancer progression. It has been reported that IL6 induces C-reactive protein (CRP) expression through the STAT3 pathway in HepG2 cells. To test this effect, HepG2 cells were seeded overnight at a density of 1x10⁵ cells/mL, and treated with or without various concentrations of IL6 for 24h and CRP levels in the cell supernatant were determined by ELISA. CRP levels in the cell supernatant of HepG2 cells increased significantly after stimulated with IL6, the data was shown in Table 1 and Figure 1.

ADDITIONAL INFORMATION

Product Categories/Family for IL6 active protein	Active Protein
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NCBI AND UNIPROT INFORMATION

NCBI GI #	930945756
NCBI GeneID	16193
NCBI Accession #	NP_001300983.1
NCBI GenBank Nucleotide #	NM_001314054.1
UniProt Accession #	P08505; Q3UCQ0; Q8BN26
Molecular Weight	23.3kDa; 26-33kDa
NCBI Official Full Name	interleukin-6 isoform 2
NCBI Official Synonym Full Names	interleukin 6
NCBI Official Symbol	IL6
NCBI Official Synonym Symbols	IL-6
NCBI Protein Information	interleukin-6
UniProt Protein Name	Interleukin-6
UniProt Gene Name	IL6
UniProt Synonym Gene Names	IL-6; IL-6

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/293f-cell-active-protein/interleukin-6-il6/146610>