

IL6R alpha active protein

IL6R alpha protein

CATALOG # AAA75439	HOST Human
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PRODUCT SYNONYMS

IL6R alpha; IL6R alpha protein; B cell stimulatory factor-2 protein; soluble IL-6 receptor alpha protein; IL-6; IL6; Interleukin 6R alpha protein; CD126 protein; IL-6R alpha protein; IL-6 protein; IL 6 protein; IL 6; IL6R alpha active protein

PRODUCT SPECIFICATIONS

Host	Human
Purity/Purification	> 98% pure
Form/Format	Lyophilized from 1x PBS. Reconstitute in 1X PBS to a concentration of 0.1-1.0 mg/ml. When dissolved, dilute further into aqueous buffered solutions.
Concentration	5ug per vial (varies by lot)
Sequence	Region of IL6R protein corresponds to amino acids LAPRRCPAQEVARGVLTSLPGDSVLTCPGVEPEDNATVHWVLRKP AAGSHPSRWA GMGRRLLRS VQLHDSGNYS CYRAGRPAGT VHLLVDVPPE EPQLSCFRKSPLSNVVCEWG PRSTPSLTTK AVLLVRKFQN SPAEDFQEPQYSQESQKFS CQLAVPEGDS SFYIVSMCVA SSVGSKFSKT QTFQGCILQ PDPPANITVT AVARNPRWLS VTWQDPHSWN SSFYRLRFEL RYRAERSKTF TTWMVKDLQH HCVIHDAWSG LRHVVLRAQ EEFGQGEWSE WSPEAMGTPW TESRSPPAEN EVSTPMQALT TNKDDDNILF RDSANATSLP VQD.
Sequence Length	352
Protein Type	Recombinant
Biological Significance	IL6 mediates its biological effects through the type I IL6 receptor system that consists of two chains, IL6Ra and gp130. The IL6Ra chain is the binding component specific to IL6; while the gp130 only transmits signals of IL6 when bound to IL6Ra. The gp130 also can transmit signals from LIF, OSM, CNTF, IL11 and CT-1 in conjunction with other receptor subunits. The low-affinity binding site for IL6 is composed of IL6Ra alone. IL6Ra is expressed in a wide range of cells including T cells, fibroblasts and macrophages. Soluble IL6Ra which consists of only the extracellular domain of the IL6Ra chain, acts as an agonist of IL6 activity at low concentrations.
Bioactivity	The ED50 was determined by its ability to intensify the IL-6 induced growth inhibition of Mouse M1 cells is approximately 5.0 ng/ml, in the presence of 20 ng/ml of rhIL-6.
Endotoxin Levels	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Expression System	HEK cells
Preparation and Storage	Store at 4 degree C until reconstitution. Following reconstitution aliquot and freeze at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for IL6R alpha active protein	Purified recombinant Human IL6R alpha protein
Product Categories/Family for IL6R alpha active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	332309226
NCBI GeneID	3570
NCBI Accession #	NP_001193795.1
NCBI GenBank Nucleotide #	NM_001206866.1
UniProt Accession #	P08887; Q16202; Q53EQ7; Q5FWG2; Q5VZ23; A8KAE8; B2R6V4
Molecular Weight	37.6 kDa
NCBI Official Full Name	interleukin-6 receptor subunit alpha isoform 3
NCBI Official Synonym Full Names	interleukin 6 receptor
NCBI Official Symbol	IL6R
NCBI Official Synonym Symbols	IL6Q; gp80; CD126; IL6RA; IL6RQ; IL-6RA; IL-6R-1
NCBI Protein Information	interleukin-6 receptor subunit alpha
UniProt Protein Name	Interleukin-6 receptor subunit alpha
UniProt Gene Name	IL6R
UniProt Synonym Gene Names	IL-6 receptor subunit alpha; IL-6R subunit alpha; IL-6R-alpha; IL-6RA; gp80
UniProt Entry Name	IL6RA_HUMAN

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/human-active-protein/il6r-alpha/75439>