

IL-6R alpha active protein

Recombinant IL-6R alpha

CATALOG # AAA48327	HOST Baculovirus	APPLICATIONS SDS-Page
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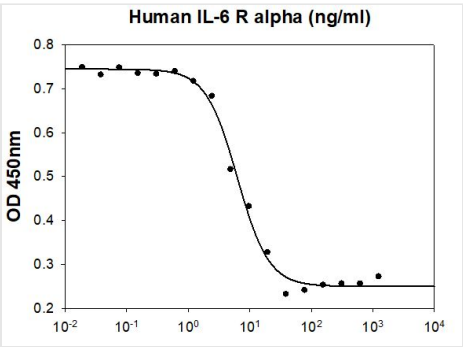
PRODUCT SYNONYMS

IL-6R alpha; Recombinant IL-6R alpha; Interleukin-6 receptor subunit alpha isoform 1; IL6R; CD126; gp80; IL-6R-1; IL-6RA; IL6Q; IL6RA; IL6RQ; IL-6R alpha active protein

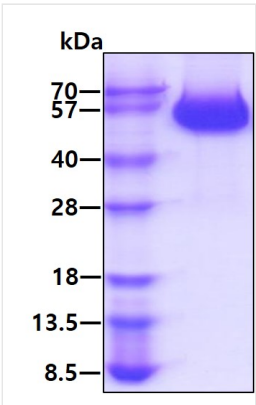
PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	> 90% by SDS - PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Concentration	0.25mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	20-365aa
Sequence	LAPRR CPAQEVARGV LTSLPGDSVT LTCPGVEPED NATVHWVLRK PAAGSHPSRW AGMGRRLLLR SVQLHDSGNY SCYRAGRPAG TVHLLVDVPP EEPQLSCFRK SPLSNVCEW GPRSTPSLTT KAVLLVRKFQ NSPAEDFQEP CQYSQESQKF SCQLAVPEGD SSFYIVSMCV ASSVGSKFSK TQTFQGCGIL QPDPPANITV TAVARNPRWL SVTWQDPHSW NSSFYRLRFE LRYRAERSKT FTTWMVKDLQ HHCVIHDAWS GLRHVVQLRA QEEFGQGEWS EWSPEAMGTP WTESRSPPAE NEVSTPMQAL TTNKDDDNIL FRDSANATSL PVQDSSSVPL P
Sequence Length	53
Applicable Applications for IL-6R alpha active protein	Bioactivity, SDS-PAGE
Tag	His-Tag
Biological Activity	Measured by its ability to inhibit proliferation using M1 mouse myeloid leukemia cells. The ED50 range 20 ng/ml with Human IL-6.
Predicted nterm	Ala
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Preparation and Storage	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.

IMAGES



Bioactivity
Human IL-6 R alpha inhibits Human IL-6 induced cell proliferation in the M1 mouse myeloid leukemia cells. The ED50 range 20 ng/ml.



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

ADDITIONAL INFORMATION

Related Product Information for IL-6R alpha active protein	IL-6R alpha, also known as interleukin-6 receptor subunit alpha isoform 1, is a type I cytokine receptor. It is a potent pleiotropic cytokine that regulates cell growth and differentiation and plays an important role in immune response. It has a modular build of several immunoglobulin-like and fibronectin type III-like domains. The low concentration of a soluble form of IL-6 receptor (sIL-6R) acts as an agonist of IL-6 activity. In the IL-6R/CD126/IL6R system, both a membrane-bound IL-6R and a sIL-6R protein are able to mediate IL-6 signals into the cells through the interaction of gp130. It is implicated in the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases and prostate cancer. Recombinant human IL-6R alpha, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product Categories/Family for IL-6R alpha active protein	Hormones & Cytokines; Immunology
References	Sugita T., et al. (1990) J Exp Med. 171:2001-2009.;Yamasaki K., et al. (1988) Science. 241:825-828.

NCBI AND UNIPROT INFORMATION

NCBI GI #	633863
NCBI GeneID	3570
UniProt Accession #	P08887
Molecular Weight	39.6kDa (355aa)
NCBI Official Full Name	Soluble interleukin-6 receptor, partial
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.

