

Recombinant human IL-6R alpha/IL6R protein

Catalog Number: ATGP3919

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

20-365aa

UniProt No.

P08887

NCBI Accession No.

NP_000556

Alternative Names

Interleukin-6 receptor subunit alpha, IL-6 receptor subunit alpha, IL-6R subunit alpha, IL-6R 1, Membrane glycoprotein 80, gp80, CD126

Additional Information

ATGP3819 has been replaced with a catalog number ATGP3919.

PRODUCT SPECIFICATION

Molecular Weight

39.6 kDa (355aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

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.

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.

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BACKGROUND

Description

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.

Amino acid Sequence

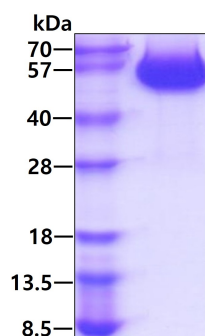
<ADP>LAPRRCP AQEVARGVLT SLPGDSVTLT CPGVEPEDNA TVHWVLRKPA AGSHPSRWAGMGRRLLLRSV
QLHDSGNYSY YRAGRPAGTV HLLVDVPPEE PQLSCFRKSP LSNVVCEWGPSTPSLTTKA VLLVRKFQNS PAEDFQEPCQ
YSQESQKFSC QLAVPEGDSS FYIVSMCVASSVGSKFSKTQ TFQGCILQP DPPANITVTA VARNPRWLSV TWQDPHSWNS
SFYRLRFELRYRAERSKTFT TWMVKDLQHH CVIHDAWSGL RHVVQLRAQE EFGQGEWSEW SPEAMGTPWTESRSPPAENE
VSTPMQALTT NKDDDNILFR DSANATSLPV QDSSSVPLP<H HHHHH>

General References

Sugita T., et al. (1990) J Exp Med. 171:2001-2009.
Yamasaki K., et al. (1988) Science. 241:825-828.

DATA

SDS-PAGE

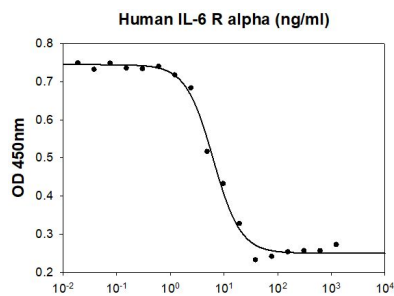


3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Biological Activity

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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.