

Bioactive

IL6R (Human) Recombinant Protein

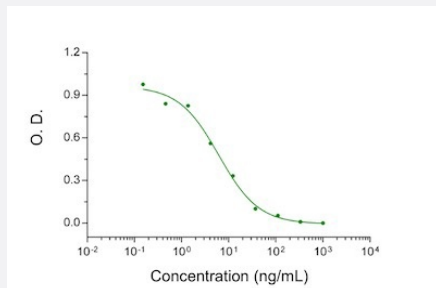
Catalog # P7378

Size 10 ug

Applications

Result of activity analysis

Result of activity analysis



Specification

Product Description

Human IL6R (P08887, 20 a.a. - 365 a.a) partial recombinant protein expressed in CHO cells.

Sequence

LAPRRCPAQEVARGVLTSLPGDSVTLTCPGVEPEDNATVHWVLRKPAAGSHPSRWAGMGRLL
 LRSVQLHDSGNYSYRAGRPAAGTVHLLVDVPPEEPQLSCFRKSPLSNVCEWGPRSTPSLTTKA
 VLLVRKFQNSPAEDFQEPQYSQESQKFSCQLAVPEGDSSFYVSMCVASSVGSKFSTQTFQ
 GCGILQPDPPANITVTAVARNPRWLSVTWQDPHSWNSSFYRLRFELRYAERSKTFTTWMVKDL
 QHHCVIHDAWSGLRHVVQLRAQEEFGQGEWSEWSPEAMGTPWTESRSPAENEVSTPMQALT
 TNKDDDNILFRDSANATSLPVQDSSSVPLP

Host

Mammals

Theoretical MW (kDa)

54 - 56

Form

Lyophilized

Preparation Method

Mammalian cell (CHO) expression system

Purity

> 95% as analyzed by SDS-PAGE.
 > 95% as analyzed by HPLC.

Endotoxin Level

< 0.2 EU/ug of protein by gel clotting method

Activity

ED₅₀ < 0.2 ug/mL, measured in a cell proliferation assay using M1 cells in the presence of 10.0 ng/ml
 I human IL-6.

Recommend Usage

Biological Activity
SDS-PAGE
The optimal working dilution should be determined by the end user.

Storage Buffer

Lyophilized from PBS. Reconstitute the lyophilized powder in ddH₂O up to 100 ug/mL.

Storage Instruction

Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Note

Result of activity analysis
Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — IL6R

Entrez GeneID[3570](#)**Protein Accession#**[P08887](#)**Gene Name**

IL6R

Gene Alias

CD126, IL-6R-1, IL-6R-alpha, IL6RA, MGC104991

Gene Description

interleukin 6 receptor

Omim ID[147880](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Interleukin 6 (IL6) is a potent pleiotropic cytokine that regulates cell growth and differentiation and plays an important role in immune response. The protein encoded by this gene is a subunit of the receptor complex for IL6. The IL6 receptor is a protein complex consisting of this protein and interleukin 6 signal transducer (IL6ST/GP130/IL6-beta), a receptor subunit also shared by many other cytokines. Dysregulated production of IL6 and this receptor are implicated in the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases and prostate cancer. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]

Other Designations

CD126 antigen|OTTHUMP00000034320|interleukin 6 receptor alpha subunit

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Hematopoietic cell lineage](#)
- [Jak-STAT signaling pathway](#)

Disease

- [Abscess](#)
- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Autoimmune Diseases](#)
- [Behcet Syndrome](#)
- [Bronchiolitis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Chorioamnionitis](#)
- [Connective Tissue Diseases](#)
- [Coronary Disease](#)
- [Crohn Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)

- [Diabetic Nephropathies](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Esophagitis](#)
- [Fetal Diseases](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Hyperandrogenism](#)
- [Hyperglycemia](#)
- [Infant](#)
- [Infection](#)
- [Inflammation](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoproliferative Disorders](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Metabolic Syndrome X](#)
- [Multiple Myeloma](#)
- [Musculoskeletal Diseases](#)
- [Myelodysplastic Syndromes](#)

- [Neoplasm Invasiveness](#)
- [Neoplasms](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Occupational Diseases](#)
- [Osteoporosis](#)
- [Pain](#)
- [Periodontitis](#)
- [Postoperative Complications](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Psoriasis](#)
- [Pulmonary Disease](#)
- [Radiation Injuries](#)
- [Radiation Pneumonitis](#)
- [Respiratory Syncytial Virus Infections](#)
- [Respiratory Tract Infections](#)
- [Schizophrenia](#)
- [Sepsis](#)
- [Skin Diseases](#)
- [Skin Neoplasms](#)
- [Thoracic Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)

- [Werner syndrome](#)