

Bioactive

HuPro®

IL7R (Human) Recombinant Protein

Catalog # P6768

Size 100 ug

Applications



IL7R (Human) Recombinant Protein (Cat #P6768) was determined by SDS-PAGE with Coomassie Blue, showing a band at 70-90 kDa.

Result of activity analysis

Result of activity analysis

Specification

Product Description	Human IL7R (NP_002176.2, 21 a.a. - 236 a.a.) partial recombinant protein with Fc and His tag at C-terminus expressed in HEK293 cells.
Host	Human
Theoretical MW (kDa)	70-90
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Ni-sepharose purification
Purity	> 95% by SDS-PAGE

Endotoxin Level	< 1.0 EU/ug
Activity	Measured by the binding ability in a functional ELISA. Immobilized Recombinant Human IL7 at 2 ug/mL (100 uL/well) can bind Recombinant Human IL7R alpha, the EC ₅₀ of Recombinant Human IL7R alpha is 48.44 ng/mL.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue IL7R (Human) Recombinant Protein (Cat #P6768) was determined by SDS-PAGE with Coomassie Blue, showing a band at 70-90 kDa.
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS, pH 7.4.
Storage Instruction	Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution to a concentration of 0.1-0.5 mg/mL in sterile distilled water, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- SDS-PAGE

Gene Info — IL7R

Entrez GeneID	3575
Protein Accession#	P16871-1
Gene Name	IL7R
Gene Alias	CD127, CDW127, IL-7R-alpha, IL7RA, ILRA
Gene Description	interleukin 7 receptor
Omim ID	146661 600802
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene is a receptor for interleukine 7 (IL7). The function of this receptor requires the interleukin 2 receptor, gamma chain (IL2RG), which is a common gamma chain shared by the receptors of various cytokines, including interleukine 2, 4, 7, 9, and 15. This protein has been shown to play a critical role in the V(D)J recombination during lymphocyte development. This protein is also found to control the accessibility of the TCR gamma locus by STAT5 and histone acetylation. Knockout studies in mice suggested that blocking apoptosis is an essential function of this protein during differentiation and activation of T lymphocytes. The functional defects in this protein may be associated with the pathogenesis of the severe combined immunodeficiency (SCID). [provided by RefSeq]

Other Designations

CD127 antigen|interleukin 7 receptor alpha chain

Pathway

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

Disease

- [Arthritis](#)
- [Asthma](#)
- [Bronchial Hyperreactivity](#)
- [Carcinoma](#)
- [Celiac Disease](#)
- [Dermatitis](#)
- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Graft vs Host Disease](#)
- [Helicobacter Infections](#)
- [HIV Infections](#)

- [Hyperparathyroidism](#)
- [Kaposi Varicelliform Eruption](#)
- [Lung Diseases](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Lymphomatoid Granulomatosis](#)
- [Lymphopenia](#)
- [Multiple Sclerosis](#)
- [Pulmonary Disease](#)
- [Recurrence](#)
- [Respiratory Hypersensitivity](#)
- [Sarcoidosis](#)
- [Severe combined immunodeficiency](#)
- [Stomach Neoplasms](#)
- [Syndrome](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)