

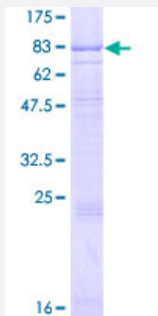
Full-Length

IL7R (Human) Recombinant Protein (P01)

Catalog # H00003575-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human IL7R full-length ORF (AAH67539.1, 1 a.a. - 459 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MTILGTTFGMVFSLLQVVSGESGYAQNGDLEDAELDDYTFSCYSQLEVNGSQHSLTCAFEDPDV
NTTNLEFEICGALVEVKCLNFRKLQENYFIETKKFLLIGKSNICVKVGEKSLTCKKIDLTIVKPEAPFD
LSVIYREGANDFVVTFNTSHLQKKYVKVLMHDVAYRQEKDENKWTHVNLSSTKLTLLQRKLQPAA
MYEIKVRSIPDHYFKGFWSEWSPSYFFRTPEINNSSGEMDPILLTISLFFSVALLVILACVLWKKRI
KPIVWPSLPDHKKTLHLCKKPRKLNLSFNPFESFLDCQIHRVDDIQARDEVEGFLQDTFPQQLE
ESEKQRLGGDVQSPNCPSEDVVITPESFGRDSSLTCLAGNVSACDAPILSSSGSLDCRESGKNG
PHVYQDLLLSLGTNSTLPPPFSLQSGILTLNPVAQGGPILTSLGSNQEEAYVTMSSFYQNNQ

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

77.9

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — IL7R

Entrez GeneID [3575](#)

GeneBank Accession# [BC067539.1](#)

Protein Accession# [AAH67539.1](#)

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

Publication Reference

- [Elevated IL-7R \$\alpha\$ is linked to recurrence and poorer survival of gastric adenocarcinoma.](#)

Hui Jiang, Hao Yang, Hongzhou Wang, Mei Zheng, Baolong Liu.

International Journal of Clinical and Experimental Pathology 2018 Mar; 11(3):1645.

Application: Blocking, IHC-P, Human, Antibody, Human gastric cancer and paired normal control tissues

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](#)