

## Recombinant Human IL7R protein, Fc-His-tagged

**Cat. No.** IL7R-788H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human IL7R protein(NP_002176.2)(Met 1-Gly 236) was expressed in HEK293, fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 1-236 aa                                                                                                                                                                                                                                                                                                 |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4.                                                                                                                                                                                                                                                                    |
| <b>Bio-activity</b>     | 1. Measured by its ability to bind biotinylated mouse TSLP-his in functional ELISA. 2. Measured by its binding ability in a functional ELISA. Immobilized human IL7 at 10 µg/ml (100 µl/well) can bind human IL7Ra-Fch, The EC50 of human IL7Ra-Fch is 15.2-35.6 ng/ml.                                  |
| <b>Molecular Mass</b>   | The recombinant human IL7Ra/Fc is a disulfide-linked homodimer. The reduced monomer consists of 464 amino acids and has a predicted molecular mass of 53 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh IL7Ra/Fc monomer is approximately 65-75 kDa due to glycosylation. |
| <b>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                                                                          |
| <b>Purity</b>           | > 95 % as determined by SDS-PAGE                                                                                                                                                                                                                                                                         |

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|                               |                                                                                                                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                | Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Reconstitution</b>         | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.        |
| <b>protein Refseq-Weblink</b> | <a href="http://www.ncbi.nlm.nih.gov/protein/NP_002176.2">http://www.ncbi.nlm.nih.gov/protein/NP_002176.2</a>                                                                        |
| <b>Unit ID</b>                | P16871                                                                                                                                                                               |
| <b>Unit ID-Weblink</b>        | <a href="http://www.uniprot.org/uniprot/P16871">http://www.uniprot.org/uniprot/P16871</a>                                                                                            |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | IL7R interleukin 7 receptor [ Homo sapiens ]                                                                                                                                                                                                                   |
| <b>Official Symbol</b> | IL7R                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>        | IL7R; interleukin 7 receptor; interleukin-7 receptor subunit alpha; CD127; IL-7RA; CD127 antigen; IL-7R subunit alpha; IL-7 receptor subunit alpha; interleukin 7 receptor alpha chain; interleukin 7 receptor isoform H5-6; ILRA; IL7RA; CDW127; IL-7R-alpha; |
| <b>Gene ID</b>         | 3575                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | NM_002185                                                                                                                                                                                                                                                      |
| <b>protein Refseq</b>  | NP_002176                                                                                                                                                                                                                                                      |

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