

## Active Recombinant Human IL7R Protein, His-tagged

**Cat. No.** IL7R-01H    **Lot. No.** (See product label)

### SPECIFICATION

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>             | Recombinant Human IL7R Protein (Glu21-Asp239), with a C-terminal 6-His tag, was expressed in Human embryonic kidney cell.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>                      | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>                       | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>                | 21-239 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>                  | The protein encoded by this gene is a receptor for interleukin 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 interleukins 2, 4, 7, 9, and 15. This protein has been shown to play a critical role in V(D)J recombination during lymphocyte development. Defects in this gene may be associated with severe combined immunodeficiency (SCID). Alternatively spliced transcript variants have been found. |
| <b>Bio-activity</b>                 | Measured by its binding ability in a functional ELISA. In a His Tag Antibody coated plate, when Recombinant Human IL-7R alpha/CD127 His-tag is present at 500 ng/mL, Recombinant Human IL-7 binds with an ED50 of 0.75-4.5 ng/mL.                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>               | 44-51 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>N-terminal Sequence Analysis</b> | Glu21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                                                                                                                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | < 0.10 EU/μg of the protein by the LAL method.                                                                                                                                                                                                                                                           |
| <b>Purity</b>         | > 95% by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.                                                                                                                                                                                             |
| <b>Storage</b>        | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>12 months from date of receipt, -20 to -70 centigrade as supplied.<br>1 month, 2 to 8 centigrade under sterile conditions after reconstitution.<br>3 months, -20 to -70 centigrade under sterile conditions after reconstitution. |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 μm filtered solution in PBS.                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b> | Reconstitute at 500 μg/mL in PBS.                                                                                                                                                                                                                                                                        |
| <b>Shipping</b>       | The product is shipped at ambient temperature.                                                                                                                                                                                                                                                           |

## GENE INFORMATION

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|     |        |
|-----|--------|
| MIM | 146661 |
|-----|--------|

|            |        |
|------------|--------|
| UniProt ID | P16871 |
|------------|--------|

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA