

## 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

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<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. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 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 [ <i>Homo sapiens</i> (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

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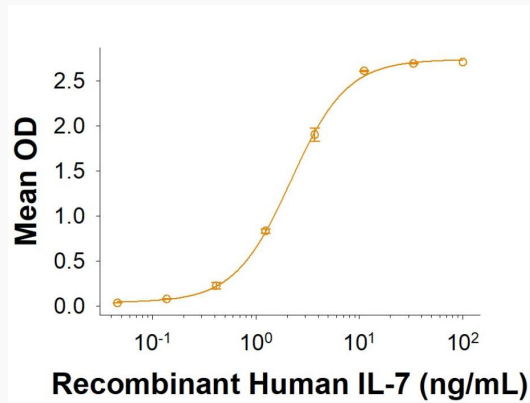
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**MIM** 146661

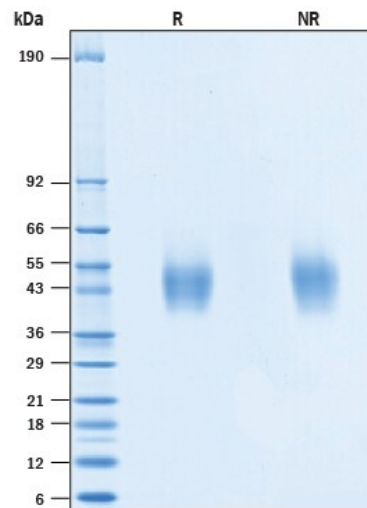
**UniProt ID** P16871

**Binding Activity**



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.

**SDS-PAGE**



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2 µg/lane of Recombinant Human IL-7R alpha/CD127 His-tag was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie® Blue staining, showing bands at 44-51 kDa.

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