

Active Recombinant Human IL7R Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human IL7R Protein (Glu21-Asp239), with a C-terminal 6-His tag, was expressed in Human embryonic kidney cell.
Species	Human
Source	HEK293
ProteinLength	21-239 a.a.
Description	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.
Bio-activity	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.
Molecular Mass	44-51 kDa
N-terminal Sequence Analysis	Glu21

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Endotoxin	< 0.10 EU/μg of the protein by the LAL method.
Purity	> 95% by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	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.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 500 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	IL7R interleukin 7 receptor [Homo sapiens (human)]
Official Symbol	IL7R
Synonyms	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
Gene ID	3575
mRNA Refseq	NM_002185
Protein Refseq	NP_002176

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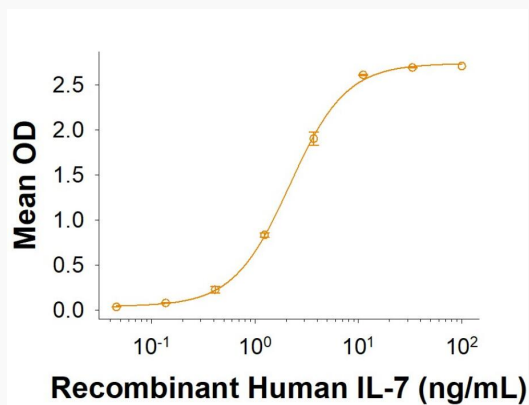
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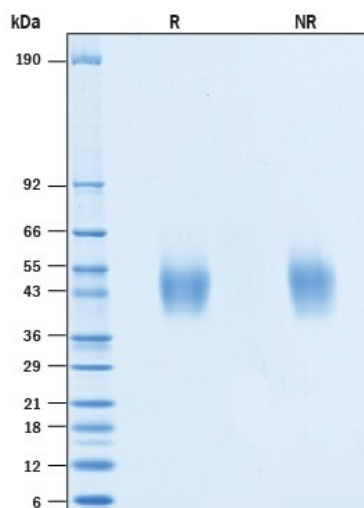
UniProt ID P16871

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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