

Recombinant Human IL7RA protein, Fc-tagged

Cat. No. IL7RA-328H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL7RA protein (Glu21-Gly236), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	216
Description	<p>Interleukin-7 receptor subunit alpha (IL7Ra) is also known as CD antigen CD127, which belongs to the type I cytokine receptor family and type 4 subfamily. IL7Ra/CD127 contains 1 fibronectin type-III domain. IL7Ra/CD127 is expressed on various cell types, including naive and memory T cells and many others. IL7Ra/CD127 is receptor for interleukin-7 and also acts as a receptor for thymic stromal lymphopoietin (TSLP). The IL7 receptor is a heterodimer of IL7R and IL2RG. The TSLP receptor is a heterodimer of CRLF2 and IL7R.</p>
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 51.0 kDa. The protein migrates as 66-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.

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Purity	>95% as determined by SDS-PAGE.
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.</p>
Reconstitution	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.

GENE INFORMATION

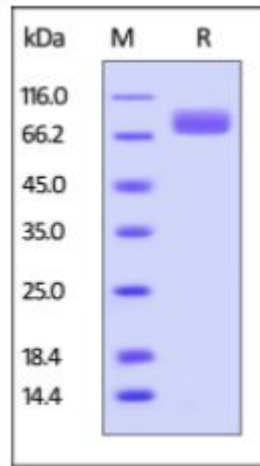
Gene Name	IL7RA
Official Symbol	IL7RA
Synonyms	ILRA; CD127; IL7RA; CDW127; IL-7R-alpha
Gene ID	3575
mRNA Refseq	NM_002185.5
Protein Refseq	NP_002176.2
MIM	146661
UniProt ID	P16871

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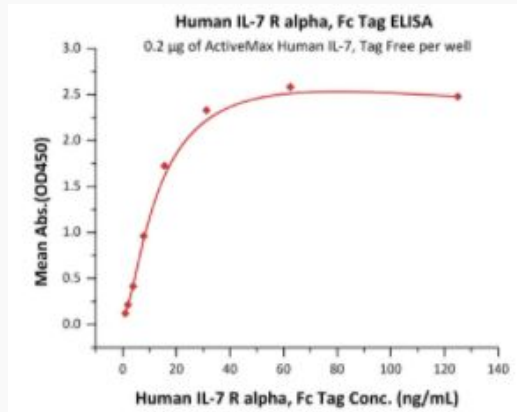
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SDS-PAGE of IL7RA-328H



Human IL-7 R alpha, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA of IL7RA-328H

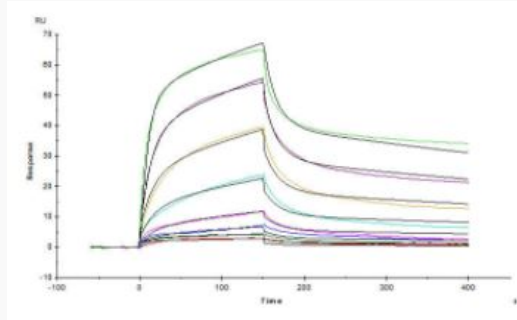


Immobilized Human IL-7, Tag Free at 2 µg/mL (100 µL/well) can bind Human IL-7 R alpha, Fc Tag with a linear range of 1-16 ng/mL (QC tested).

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**Bioactivity-SPR of
IL7RA-328H**

Captured Human IL-7R alpha, Fc Tag on CM5 chip via anti-human IgG Fc antibodies surface can bind ActiveMax[®] Human IL-7, Tag Free with an affinity constant of 23.9 nM as determined in a SPR assay (Routinely tested).

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