Recombinant Human IL7RA protein, Mouse IgG2a Fc-tagged

Cat. No. IL7RA-324H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL7RA protein (Glu21-Gly236), fused to Mouse IgG2a Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	216
Description	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.
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 52.0 kDa. The protein migrates as 65-115 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.

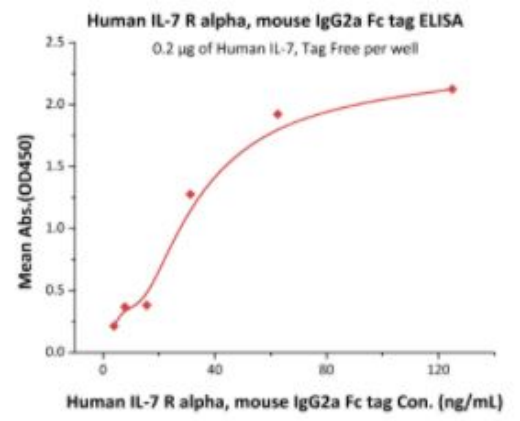
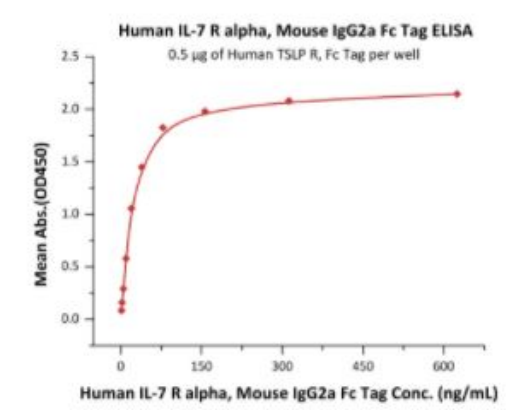
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Purity	>90% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
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℃ before opening to recover the entire contents.

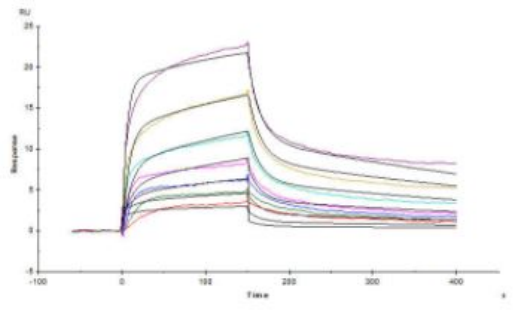
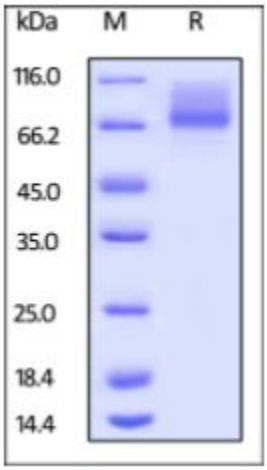
GENE INFORMATION

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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Bioactivity-ELISA of IL7RA-324H	 Immobilized Human IL-7, Tag Free at 2 μg/mL (100 μL/well) can bind Human IL-7 R alpha, Mouse IgG2a Fc Tag with a linear range of 4-31 ng/mL (QC tested).
Bioactivity-ELISA of IL7RA-324H	 Biotinylated Human TSLP (R127A, R130A), His,Avitag immobilized at 2 μg/mL (100 μL/well) via precoated 5 μg/mL (100 μL/well) of Human TSLP R, Fc Tag , can bind can bind Human IL-7 R alpha, Mouse IgG2a Fc Tag with a linear range of 1-20 ng/mL (Routinely tested).

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Bioactivity-SPR of IL7RA-324H	 Captured Human IL-7R alpha, Mouse IgG2a Fc Tag on CM5 chip via anti-mouse antibodies surface can bind Human IL-7, Tag Free with an affinity constant of 13.3 nM as determined in a SPR assay (Routinely tested).
SDS-PAGE of IL7RA-324H	 Human IL-7 R alpha, Mouse IgG2a 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 90%.

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