

Recombinant Human IL7RA protein, Mouse IgG2a Fc-tagged

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

SPECIFICATION

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| 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 | <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 lymphopietin (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 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 | <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

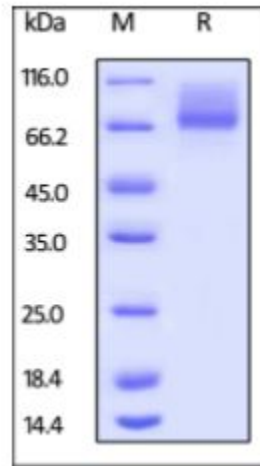
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|------------------------|---|
| Gene Name | IL7RA |
| Official Symbol | IL7RA |
| Synonyms | ILRA; CD127; IL7RA; CDW127; IL-7R-alpha |
| Gene ID | 3575 |
| mRNA Refseq | NM_002185.5 |
| Protein Refseq | NP_002176.2 |
| MIM | 146661 |
| UniProt ID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

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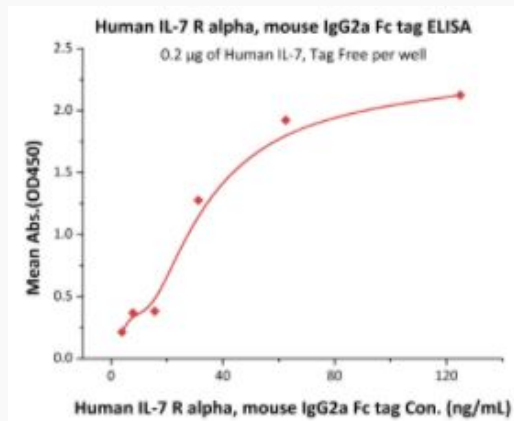
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SDS-PAGE of IL7RA-324H



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%.

Bioactivity-ELISA of IL7RA-324H



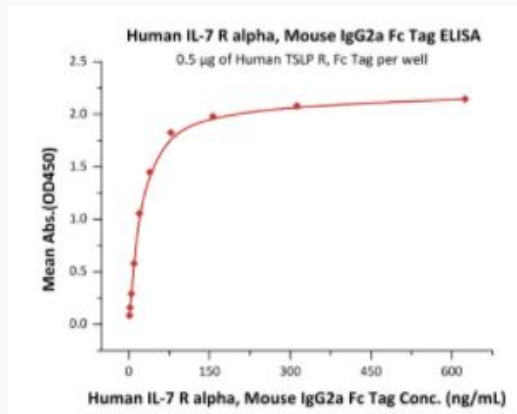
Immobilized Human IL-7, Tag Free at 2 µg/mL (100 µL/well) can bind Human IL-7 R alpha, Mouse IgG2a Fc Tag with a linear range of 4-31 ng/mL (QC tested).

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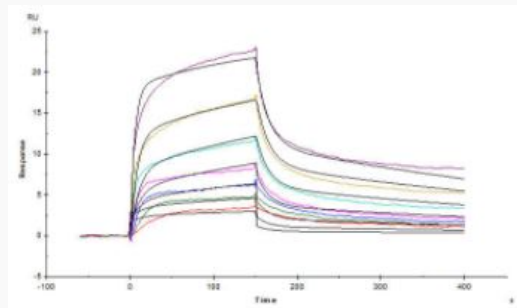
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**Bioactivity-ELISA of
IL7RA-324H**



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 Human IL-7 R alpha, Mouse IgG2a Fc Tag with a linear range of 1-20 ng/mL (Routinely tested).


**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).

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