

Recombinant Human Interleukin 5 receptor, Alpha, 308aa, Fc Chimera

Cat. No. IL5RA-126H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human interleukin 5 receptor, alpha encoding the signal peptide and extracellular domain of human Interleukin 5 receptor alpha chain (aa 1-327) was expressed in modified *human 293 cells*. It was fused to the Fc region of human IgG1 (aa 93-330).

Species Human

Source HEK293

ProteinLength 1-327 a.a.

Description Interleukin 5 (IL-5) plays an important role in B cell development by inducing the terminal differentiation of late-developing B cells. Additionally, IL-5 regulates the differentiation, survival and degranulation of eosinophils. IL-5 is expressed predominately by T-lymphocytes and mast cells, and to a lesser extent by eosinophils, natural killer cells and endothelial cells.

Amino Acid Sequence

DLLPDEKISLLPPVNF TIKVTGLAQVLL QWKP NPDQ EQRN VNLEYQVKIN
 APKEDDYET RITES KCVTIL HKGFSASVRTILQNDHSSLASSWASA EL HAPPGSPG
 TSIVNLTCTTN T TEDNYSRLRSY QVSLHCTWLVG TDAPEDTQYFL YYR YGS
 WTEEC QEYSKDTLGRN IACWFPRTFILS KG RD WLAVLV NGSSKHSAIRP FDQL
 FAL HAID QINPP LNVTA EIEGTRLSIQW EKPVSAPPIHC FDY EVKIHNTN NGYL
 QIEKLMT NAFISIIDLSKY DVQVRAAV SSMCREAG LWSEWSQ RIPKVDKKV EP

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KSCDKT HTCPPCPA PELLGGPS VLFPPKP KDTLMISRTPE VTCVVVD VS
 HEDPE VK FNWYV DGVEVHN AKTKPREEQYNST YRVVSVLT VLHQDWL NG KE
 YKCRVSNKALPAPI EK TIS KA K GQPREPQ VYTLPPSR DELT KNQ VSLTC LVK
 GFYPSD IAVEWESNG QPENNYK TTP PVL DS DGS FFLY SKLT VDK SRW QQG
 NVFSCSVMHEALHNHYTQKSLSLSPGK.

Molecular Mass Under reducing conditions IL-5R alpha (308aa)-Fc Chimera migrates as a broad band between 70 and 80 kDa on SDS-PAGE due to post-translation modifications, in particular glycosylation. This compares with the unmodified IL-5R alpha (308aa)-Fc Chimera that has a predicted monomeric molecular mass of 62.1 kDa.

PI IL-5R alpha (308aa)-Fc Chimera separates into a number of glycoforms with a pI between 5.8 and 7.0 on 2D PAGE due to post-translational modifications, in particular glycosylation. This compares with the unmodified IL-5R alpha (308aa)-Fc Chimera that has a predicted pI of 6.34.

% Carbohydrate Purified IL-5R alpha (308aa)-Fc Chimera consists of 10-25% carbohydrate by weight.

Glycosylation IL-5R alpha (308aa)-Fc Chimera has N-linked and O-linked oligosaccharides.

Purity >95%, as determined by SDS-PAGE and visualized by Coomassie Brilliant Blue.

Formulation When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.

Reconstitution It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.

Storage Lyophilized products should be stored at 2 to 8°C. Following reconstitution short-term storage at 4°C is recommended, with longer-term storage in aliquots at -18 to -20°C.

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Repeated freeze thawing is not recommended.

GENE INFORMATION

Gene Name	IL5RA interleukin 5 receptor, alpha [Homo sapiens]
Synonyms	IL5RA; interleukin 5 receptor, alpha; CD125; CDw125; HSIL5R3; IL5R; MGC26560; CD125 antigen; OTTHUMP00000115373; OTTHUMP00000206893; OTTHUMP00000206896; interleukin 5 receptor type 3; interleukin-5 receptor alpha chain; interleukin-5 receptor alpha subunit; OTTHUMP00000115257; IL-5R-alpha
Gene ID	3568
mRNA Refseq	NM_000564
Protein Refseq	NP_000555
MIM	147851
UniProt ID	Q01344
Chromosome Location	3p26-p24
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; Hematopoietic cell lineage
Function	interleukin-5 receptor activity; protein binding

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