

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 <i>human 293 cells</i> . 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 HKGFSA SVRTILQNDHSLASSWASA EL HAPPGSPG TSIVNLTCTTN T TEDNYSRLRSY QVSLHCTWLVG TDAPEDTQYFL YYR YGS WTEEC QEYSKDTLGRN IACWFPRTFILS KG RD WLAVLV NGSSKHS AIRP FDQL FAL HAID QINPP LNVTA EIEGTRLSIQW EKPVSAPFIHC FDY EVKIHNTR NGYL QIEKLMT NAFISIDDL SKY DVQVRAAV SSMCREAG LWSEWSQ RIPKVDKKV EP

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KSCDKT HTCPCPA PELLGGPS VLFPPKP KDTLMISRTPE VTCVVVD VS
HEDPE VK FNWYV DGVEVHN AKTKPREEQYNST YRVVSVLT VLNQDWL 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
NVFSCSV MHEALHNHYTQKSLSLSPGK.

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.

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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