

IL-17RA (CD217) Fc tagged Recombinant Protein | IL17RA recombinant protein

Human IL-17RA (CD217) Fc tagged Recombinant

CATALOG # AAA76104	HOST HEK293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)	REACTIVITY Measured by its ability to bind immobilized recombinant human IL-17A at a concentration range of 1-32ng/ml in a functional ELISA assay.
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PRODUCT SYNONYMS

IL-17RA (CD217) Fc tagged; Human IL-17RA (CD217) Fc tagged Recombinant; Human IL-17 receptor Fc tag Recombinant; il-17ra; il17RA; interleukin-17 r; IL17RA recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Reactivity	Measured by its ability to bind immobilized recombinant human IL-17A at a concentration range of 1-32ng/ml in a functional ELISA assay.
Purity/Purification	>98%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant Interleukin-17 receptor alpha is supplied as lyophilized 0.2 um filtered PBS solution, pH7.2.
Sequence Length	866
Host Note	Optimized DNA sequence encoding extracellular domain of human IL17R receptor including a C terminal Human IgG1 Fc tag was expressed in HEK293 cells.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Molecular Weight Note	Recombinant IL17RA/Fc is a homodimer protein consisting of 300 amino acid residue subunits, due to glycosylation migrates as an approximately 55kD protein under reducing SDS-PAGE conditions.
Preparation and Storage	Recombinant IL-17 receptor alpha, as supplied, can be stored in working aliquots at 2 degree - 8 degree C for one month, or at -20 degree C to -70 degree C for twelve months. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for IL17RA recombinant protein	IL-17 is a potent regulator of the neutrophil response. Both IL-17A and IL-17F are capable of signaling through IL-17RA to induce granulopoietic factors such as G-CSF and stem cell factor which leads to expansion of neutrophil progenitors in the bone marrow and spleen, as well as expansion of mature neutrophils in peripheral blood. IL-17RA signaling up-regulates production of neutrophilic chemokines such as CXCL1 (KC), CXCL2, CXCL5, CXCL6, and CXCL8, which in turn regulate neutrophil emigration to mucosal sites. Due to this role in neutrophil expansion and recruitment, IL-17RA signaling is an important part of the host response to extracellular bacterial infections. To date, four additional receptors have been identified in the IL-17R family based on sequence homology to IL-17R (IL-17Rh1, IL-17RC, IL-17RD, and IL-17RE) and among them, IL-17RC has been shown recently to physically associate with IL-17RA, suggesting that it may be a functional component in the IL-17R complex. Nevertheless, the final structure of the functional IL-17 receptor and the mechanisms of interactions with IL-17A remain unknown.
Product Categories/Family for IL17RA recombinant protein	Receptors CD

References	• cloning and characterisation of rainbow trout interleukin (il) -17a/f2 and IL-17RA: expression during infection and bioactivity of the recombinant il-17a/f2. <i>Infect. Immun.</i>, Nov 2012; 10.1128/IAI.00599-12. • the il-17a/IL-17RA axis plays a proatherogenic role via the regulation of aortic myeloid cell recruitment <i>Circ. Res.</i>, Mar 2012; 110: 675 - 687. • a cc' loop decoy peptide blocks the interaction between act1 and IL-17RA to attenuate il-17– and il-25–induced inflammation <i>Sci. Signal.</i>, Nov 2011; 4: ra72. • lack of IL-17RA signalling prevents autoimmune inflammation of the joint and give rise to a th2-like phenotype in collagen-induced arthritis <i>Ann Rheum Dis</i>, Mar 2011; 70: A50 - A51. • il-17a- versus il-17f-induced intracellular signal transduction pathways and modulation by IL-17RA and il-17rc rna interference in rheumatoid synoviocytes <i>Ann Rheum Dis</i>, Feb 2011; 70: 341 - 348.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	23238208
NCBI GeneID	23765
NCBI Accession #	NP_055154.3
NCBI GenBank Nucleotide #	NM_014339.6
UniProt Accession #	Q96F46; O43844; Q20WK1
Molecular Weight	96,122 Da
NCBI Official Full Name	interleukin-17 receptor A
UniProt Protein Name	Interleukin-17 receptor A
UniProt Gene Name	IL17RA
UniProt Synonym Gene Names	IL17R; IL-17 receptor A; IL-17RA
UniProt Entry Name	I17RA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/il17ra-recombinant-protein-hek293/76104>