

IL-3 receptor (CD123) Active Protein | IL3RA active protein

Human IL-3 receptor Recombinant (CD123)

CATALOG #	HOST
AAA76117	HEK293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

IL-3 receptor (CD123); Human IL-3 receptor Recombinant (CD123); Human IL-3R alpha Recombinant (CD123) ; CD123; IL-3Ra; IL3R; IL3RA; IL1R2; IL3RA active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>97%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant Human IL-3 receptor alpha (CD123) is lyophilized from 0.2 um filtered PBS solution, pH7.2, 5% Trehalose.
Sequence Length	300
Domain	Ig-like C2
Host Note	Optimized DNA sequence encoding Human extracellular domain of human IL-3 receptor alpha chain including a C-terminal His tag was expressed in HEK293 cells.
Biological Activity	Recombinant Human IL-3 receptor alpha activity was measured using Immobilized human IL3 at 20ug/ml ability to bind biotinylated human IL3RA with a linear ranger of 0.32 - 1.6ug/ml
Molecular Weight Note	Recombinant IL-3RA (CD123) is a protein consisting of 298 amino acid residue subunits, due to glycosylation migrates as an approximately 50 kDa protein on SDS-PAGE.
Endotoxin Level	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug)
Preparation and Storage	Recombinant Human IL3RA 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 IL3RA active protein	CD123 is an α subunit of a heterodimer IL-3 receptor, a member of the cytokine receptor superfamily. It is a 70 kDa protein, which binds IL-3 with high specificity but with low affinity. CD123 is encoded by the IL-3a gene, located in the pseudo-autosomal region (PAR) at the ends of the short arms of the X and Y chromosomes, B-lymphoid blasts from acute lymphoblastic leukemia (ALL) have been shown to express functional CD123 and CD40 ligand stimulates proliferation of precursor-B (pre-B) ALL by upregulating CD123 expression.
Product Categories/Family for IL3RA active protein	Receptors CD

References	<ul style="list-style-type: none"> • pellino 2 is critical for toll-like receptor/interleukin-1 receptor (tlr/IL-1R) -mediated post-transcriptional control .J. Biol. Chem., Jul 2012; 287: 25686 - 25695. • role of toll interleukin-1 receptor (IL-1R) 8, a negative regulator of IL-1R/toll-like receptor signaling, in resistance to acute pseudomonas aeruginosa lung infection .Infect. Immun., Jan 2012; 80: 100 - 109. • IL-1R-associated kinase-1 mediates protein kinase c-induced il-1? production in monocytes .J. Immunol., Sep 2011; 187: 2632 - 2645. • effect of mitomycin c on IL-1R expression, il-1-related hepatocyte growth factor secretion and corneal epithelial cell migration .Invest. Ophthalmol. Vis. Sci., Mar 2010; 51: 1389 - 1396. • mycobacterium bovis bacillus calmette-guérin vaccination mobilizes innate myeloid-derived suppressor cells restraining in vivo t cell priming via IL-1R-dependent nitric oxide production .J. Immunol., Feb 2010; 184: 2038 - 2047.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	391224440
NCBI GeneID	3563
NCBI Accession #	NP_001254642.1
NCBI GenBank Nucleotide #	NM_001267713.1
UniProt Accession #	P26951; Q5HYQ7; A8K3F3; B9VI81
Molecular Weight	43,330 Da
NCBI Official Full Name	interleukin-3 receptor subunit alpha isoform 2
UniProt Protein Name	Interleukin-3 receptor subunit alpha
UniProt Gene Name	IL3RA
UniProt Synonym Gene Names	IL3R; IL-3 receptor subunit alpha; IL-3R subunit alpha; IL-3R-alpha; IL-3RA
UniProt Entry Name	IL3RA_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://stage.aaabiotech.com/hek293-cells-il3ra-active-protein/il-3-receptor-cd123/76117>