ICOS Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	ICOS, Recombinant Protein
Full Product Name	Recombinant Human ICOS Protein
Product Gene Name	ICOS recombinant protein
Product Synonym Names	AILIM; Inducible T-cell costimulator; Activation-inducible lymphocyte immunomediatory molecule; CD278
Sequence	EINGSANYEM FIFHNGGVQI LCKYPDIVQQ FKMQLLKGGQ ILCDLTKTKG SGNTVSIKSL KFCHSQLSNN SVSFFLYNLD HSHANYYFCN LSIFDPPPFK VTLTGGYLHI YESQLCCQLK FVDDIEGRMD EPKSCDKTHT CPPCPAPELL GGPSVFLFPP KPKDTLMISR TPEVTCVVVD VSHEDPEVKF NWYVDGVEVH NAKTKPREEQ YNSTYRVVSV LTVLHQDWLN GKEYKCKVSN KALPAPIEKT ISKAKGQPRE PQVYTLPPSR EEMTKNQVSL TCLVKGFYPS DIAVEWESNG QPENNYKTTP PVLDSDGSFF LYSKLTVDKS RWQQGNVFSC SVMHEALHNH YTQKSLSLSP GK
Host	Human cells
Species Reactivity	Human
Form/Format	Lyophilized from a 0.2 muM filtered solution of PBS, pH 7.4.
Purity/Purification	Greater than 95% as determined by reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at -20 degree C for 3 months.
Molecular Weight	19,127 Da
OMIM	AJ277832 mRNA
3D Structure	ModBase 3D Structure for Q9Y6W8
Endotoxin	Less than 0.1 ng/mug (1 IEU/mug) as determined by LAL test.
Directions for Use	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 mug/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Applications Tested/Suitable for ICOS recombinant protein	ELISA (EIA),Western Blot (WB), SDS-PAGE, Mass Spectrometry (MS)
Related Product Information for ICOS recombinant protein	Recombinant Human ICOS Protein is produced by our mammalian expression system and the target gene encoding Glu21-Phe141 is expressed with a Fc tag at the C-terminus.
Other Notes	Small volumes of ICOS recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ICOS purchase	MBS8249186 is a recombinant protein targeting ICOS. Also known as Recombinant Human ICOS Protein. Reactive in Human. Host: Human cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ICOS. It may not necessarily be applicable to this product.

NCBI GI #	15029518
NCBI GeneID	29851

NCBI Accession #	NP_036224.1
UniProt Primary Accession #	Q9Y6W8
UniProt Secondary Accession #	Q8N6W8
UniProt Related Accession #	Q9Y6W8
GenBank Nucleotide #	NM_012092.3
NCBI Official Full Name	inducible T-cell costimulator
NCBI Official Synonym Full Names	inducible T-cell costimulator
NCBI Official Symbol	ICOS
NCBI Official Synonym Symbols	AILIM; CD278; CVID1
UniProt Protein Name	Inducible T-cell costimulator
UniProt Synonym Protein Names	Activation-inducible lymphocyte immunomediatory molecule; CD_antigen: CD278
Protein Family	Inducible T-cell costimulator
UniProt Gene Name	ICOS
UniProt Synonym Gene Names	AILIM
UniProt Entry Name	ICOS_HUMAN
NCBI Protein Information	inducible T-cell costimulator
NCBI Summary for ICOS	The protein encoded by this gene belongs to the CD28 and CTLA-4 cell-surface receptor family. It forms homodimers and plays an important role in cell-cell signaling, immune responses, and regulation of cell proliferation. [provided by RefSeq, Jul 2008]
UniProt Comments for ICOS	ICOS: Enhances all basic T-cell responses to a foreign antigen, namely proliferation, secretion of lymphokines, up-regulation of molecules that mediate cell-cell interaction, and effective help for antibody secretion by B-cells. Essential both for efficient interaction between T and B-cells and for normal antibody responses to T-cell dependent antigens. Does not up- regulate the production of interleukin-2, but superinduces the synthesis of interleukin-10. Prevents the apoptosis of pre- activated T-cells. Plays a critical role in CD40-mediated class switching of immunoglobin isotypes. Defects in ICOS are the cause of immunodeficiency common variable type 1 (CVID1). CVID1 is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen. The defect results from a failure of B-cell differentiation and impaired secretion of immunoglobulins; the numbers of circulating B-cells is usually in the normal range, but can be lo. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 2q33 Cellular Component: plasma membrane Biological Process: T cell costimulation Disease: Immunodeficiency, Common Variable, 1; Immunodeficiency, Common Variable, 2
Research Articles on ICOS	**1.** ratio of ICOS(+) /PD-1(+) Tfh cells and the frequency of IL-21(+) Tfh cells may be indicators for evaluating the idiopathic membranous nephropathy development
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