

ICOS / AILIM / CD278 active protein

Recombinant Human ICOS / AILIM / CD278 Protein (His & Fc tag)

CATALOG # AAA173569	HOST Human Cells
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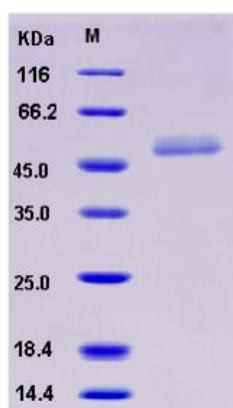
PRODUCT SYNONYMS

ICOS / AILIM / CD278; Recombinant Human ICOS / AILIM / CD278 Protein (His & Fc tag); AILIM; CD278; CVID1; ICOS / AILIM / CD278 active protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 20 mM Tris, 150mM NaCl, pH 8.5, 5% Trehalose 5% mannitol, 0.01% Tween-80
Sequence Length	199
Source	Human
Predicted N Terminal	Glu 21
Reconstitution	It is recommended that sterile water (400 uL) be added to the vial to prepare a stock solution of 0.25 mg/mL/. Concentration is measured by UV-Vis.
Endotoxin	< 1.0 EU per ug of the protein as determined by the LAL method
Bio-Activity	Measured by its binding ability in a functional ELISA. Immobilized human B7-H2 at 1 ug/mL/ (100 uL/ well.) can bind human ICOS with a linear range of 1.6-200- ng/mL.
Preparation and Storage	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted and be used as soon as possible. Avoid repeated freeze-thaw cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for ICOS / AILIM / CD278 active protein	Background: Inducible costimulator (ICOS), also called AILIM (activation-inducible lymphocyte immunomediatory molecule) is a cell-surface receptor, and belongs to the CD28 family of immune costimulatory receptors consisting of CD28, CTLA-4 and PD-1. The interaction of B7-H2/ICOS plays a critical role in Th cell differentiation, T-B cell interactions which is essential for germinal center formation, and humoral immune responses, and as well as the production of cytokine IL-4. In addition, ICOS is more potent in the induction of IL-10 production, a cytokine important for suppressive function of T regulatory cells. The B7-1/B7-2--CD28/CTLA-4 and ICOS-B7RP-1 pathway provides key second signals that can regulate the activation, inhibition and fine-tuning of T-lymphocyte responses. ICOS stimulates both Th1 and Th2 cytokine production but may have a preferential role in Th2 cell development. Moreover, The B7-1/B7-2-CD28/CTLA-4 and ICOS-B7RP-1 pathway has been suggested of being involved in the development of airway inflammation and airway hyperresponsiveness. Description: A DNA sequence encoding the extracellular domain of human ICOS (NP_036224.1) (Met 1-Phe 141) was fused to the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	15029518
NCBI GeneID	29851
NCBI Accession #	NP_036224.1
NCBI GenBank Nucleotide #	NM_012092.3
UniProt Accession #	Q9Y6W8; Q8N6W8
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
NCBI Protein Information	inducible T-cell costimulator
UniProt Protein Name	Inducible T-cell costimulator
UniProt Gene Name	ICOS
UniProt Synonym Gene Names	AILIM

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.