

ICOS ligand Active Protein | ICOSLG active protein

ICOS ligand Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA258141

HOST
HEK293 Cells

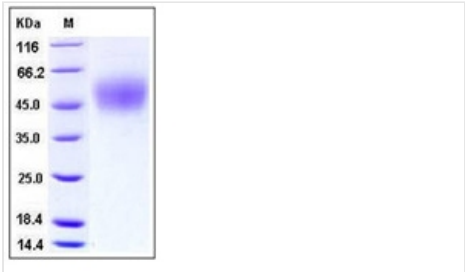
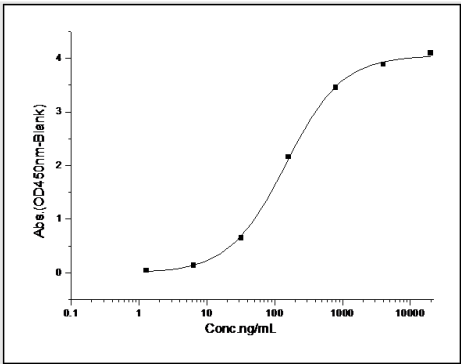
PRODUCT SYNONYMS

ICOS ligand; ICOS ligand Protein; Mouse; Recombinant (His Tag); Mouse ICOS Ligand/B7-H2/ICOSLG Protein (His Tag); B7-H2 Protein; B7h Protein; B7RP-1 Protein; GL50 Protein; GL50 Protein; GL50-B Protein; ICOS-L Protein; Icoslg Protein; LICOS Protein; inducible T-cell co-stimulator ligand; ICOSLG active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Lys27 9
Species	Mouse
Activity	Measured by its binding ability in a functional ELISA. Immobilized mouse B7-H2 at 1ug/ml (100uL/well) can bind human ICOS with a linear range of 40-1000ng/mL.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Glu 47
Tag	C-His
Protein Construction	A DNA sequence encoding the mouse B7-H2 (NP_056605.1) extracellular domain (Met 1-Lys 279) was fused with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized mouse B7-H2 at 1 ug/ml (100 ul/well) can bind human ICOS with a linear range of 40-1000 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for ICOSLG active protein	Background: Inducible co-stimulator ligand (ICOSL), also known as B7-H2, is a member of the B7 family of co-stimulatory molecules related to B7-1 and B7-2. It is a transmembrane glycoprotein with extracellular IgV and IgC domains and binds to ICOS on activated T cells, thus delivers a positive costimulatory signal for optimal T cell function. The structural features of ICOSL are crucial for its costimulatory function. The present study shows that ICOSL displays a marked oligomerization potential, resembling more like B7-1 than B7-2. B7-H2-dependent signaling may play an active role in a proliferative response rather than in cytokine and chemokine production. The CD28/B7 and ICOS/B7-H2 pathways are both critical for costimulating T cell immune responses. Deficiency in either pathway results in defective T cell activation, cytokine production, and germinal center formation.
Product Categories/Family for ICOSLG active protein	Cancer Drug Targets
References	Flesch IE. (2002) Inducible costimulator-ligand (ICOS-L). J Biol Regul Homeost Agents. 16(3): 217-9.Kajiwar K, et al. (2009) Expression and function of the inducible costimulator ligand B7-H2 in human airway smooth muscle cells. Allergol Int. 58(4): 573-83.Wong SC, et al. (2009) Functional hierarchy and relative contribution of the CD28/B7 and ICOS/B7-H2 costimulatory pathways to T cell-mediated delayed-type hypersensitivity. Cell Immunol. 256(1-2): 64-71.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7657220
NCBI GeneID	50723
NCBI Accession #	NP_056605.1
NCBI GenBank Nucleotide #	NM_015790.3
UniProt Accession #	Q9JHJ8
Molecular Weight	38,914 Da
NCBI Official Full Name	ICOS ligand
NCBI Official Synonym Full Names	icos ligand
NCBI Official Symbol	Icosl
NCBI Official Synonym Symbols	B7h; GI50; GL50; B7-H2; LICOS; B7RP-1; GL50-B; ICOS-L; Icoslg; Ly115l; AU044799; BG071784; mKIAA0653
NCBI Protein Information	ICOS ligand
UniProt Protein Name	ICOS ligand
UniProt Gene Name	Icoslg

UniProt Synonym Gene Names	B7h2; B7rp1; Icosl; B7-H2; B7RP-1
UniProt Entry Name	ICOSL_MOUSE

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-icoslg-active-protein/icos-ligand/258141>