

Recombinant Cynomolgus ICOSLG protein, Fc-tagged

Cat. No. ICOSLG-1009C Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Cynomolgus ICOSLG (Asp19-Thr256) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).

Species Cynomolgus

Source HEK293

ProteinLength Asp19-Thr256

Description ICOS ligand (ICOSLG) is also known as B7 homolog 2 (B7-H2), B7-related protein 1 (B7RP-1) and CD antigen CD275, which belongs to the immunoglobulin superfamily and BTN/MOG family. ICOSLG contains one Ig-like C2-type (immunoglobulin-like) domain and one Ig-like V-type (immunoglobulin-like) domain. Isoform 1 is widely expressed, while isoform 2 is detected only in lymph nodes, leukocytes and spleen. B7-H2 is ligand for the T-cell-specific cell surface receptor ICOS. B7-H2 acts as a costimulatory signal for T-cell proliferation and cytokine secretion and induces also B-cell proliferation and differentiation into plasma cells. B7-H2 could play an important role in mediating local tissue responses to inflammatory conditions, as well as in modulating the secondary immune response by co-stimulating memory T-cell function.

Predicted N Terminal Asp19

Form Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.

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Molecular Mass	The protein has a calculated MW of 53.0 kDa. The protein migrates as 60-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p>
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	ICOSLG
Official Symbol	ICOSLG
Synonyms	ICOSLG; inducible T-cell co-stimulator ligand; ICOSL; ICOS ligand; B7 homolog 2; B7 homologue 2; B7 H2; B7 related protein 1; B7H2; B7RP 1; B7RP1; CD275; GL50; ICOS L; KIAA0653; B7-like protein GI50; B7-related protein 1; transmembrane protein B7-H2 ICOS ligand; B7-H2; LICOS; B7RP-1; ICOS-L
Gene ID	102132485
mRNA Refseq	XM_005548560.2

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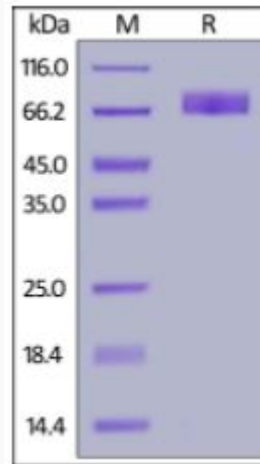
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Protein Refseq

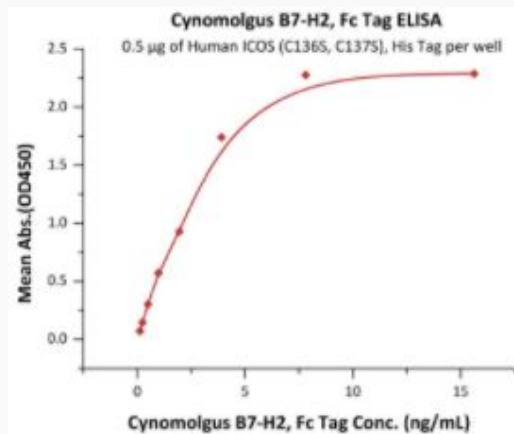
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SDS-PAGE of ICOSLG-1009C



Cynomolgus B7-H2, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA of ICOSLG-1009C



Immobilized Human ICOS (C136S, C137S), His Tag at 5 µg/mL (100 µL/well) can

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bind Cynomolgus B7-H2, Fc Tag with a linear range of 0.1-4 ng/mL (QC tested).

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