

Recombinant Mouse Icosl protein, His-tagged

Cat. No. Icosl-595M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Icosl (Glu47-Lys279) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Mouse
Source	HEK293
ProteinLength	Glu47-Lys279
Description	<p>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.</p>
Predicted N Terminal	Glu47
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.

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Molecular Mass	The protein has a calculated MW of 28.2 kDa. The protein migrates as 45-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>90% 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	Icosl
Official Symbol	Icosl
Synonyms	ICOSL; icos ligand; ICOS ligand; B7 homolog 2; B7-like protein GI50; B7-related protein 1; B7h; GI50; GL50; B7-H2; LICOS; B7RP-1; GL50-B; ICOS-L; Icoslg; Ly1151; AU044799; BG071784; mKIAA0653; KIAA0653
Gene ID	50723
mRNA Refseq	NM_015790

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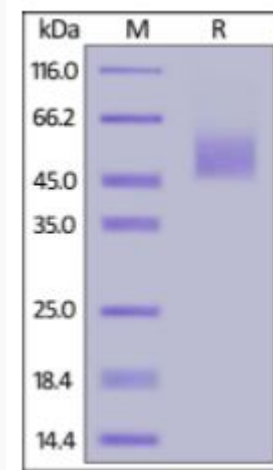
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Protein Refseq NP_056605

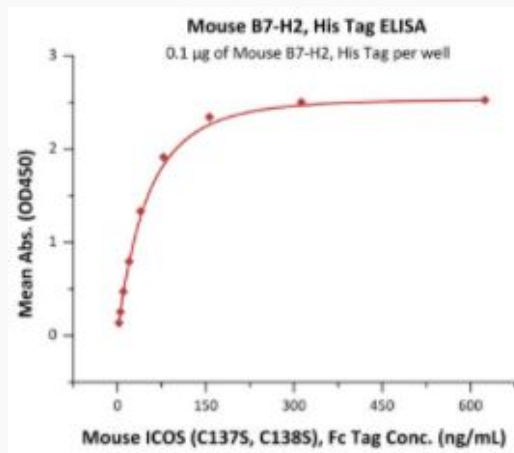
UniProt ID Q9JHJ8

SDS-PAGE of Icosl-595M



Mouse B7-H2, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA of Icosl-595M



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Immobilized Mouse B7-H2, His Tag at 1 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Mouse ICOS (C137S, C138S), Fc Tag with a linear range of 1-78 ng/mL (QC tested).

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