

Recombinant Mouse Icosl Protein, His-tagged, Alexa Fluor 488 conjugated

Cat. No. Icosl-595MAF488 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Alexa Fluor 488 conjugated 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	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.
Form	Lyophilized
Molecular Mass	The protein has a calculated MW of 28.2 kDa. The protein migrates as 45-55 kDa

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	under reducing (R) condition (SDS-PAGE) due to glycosylation.
N-terminal Sequence Analysis	Glu 47
Endotoxin	< 1.0 EU/ µg by the LAL method.
Purity	> 90 % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Conjugation	Alexa Fluor 488

GENE INFORMATION

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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; Ly115l; AU044799; BG071784; mKIAA0653; KIAA0653
Gene ID	50723
mRNA Refseq	NM_015790
Protein Refseq	NP_056605
UniProt ID	Q9JHJ8

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