

Recombinant Murine Icos Ligand, Fc Chimera

Cat. No. Icosl-2166M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Murine Icos Ligand is produced in mammalian cells and fused with human IgG1Fc. B7H2 extracellular domain (C-terminus fused with human IgG1 Fc) contains 457 amino acids with predicted MW 51.21D x 2 (dimer), and 12 cysteines (Fc has 6). It also has 6 N-link glycosylation sites with MW increase up to 30 kDa. It is ligand for the T-cell specific cell surface receptor ICOS and acts as a costimulatory signal for T-cell proliferation and differentiation. It induces also B-cell proliferation and differentiation in plasma cells.

Species

Mouse

Source

Mammalian Cells

Description

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. Present study shows that ICOSL displays a marked oligomerization potential, resembling more like B7-1 than B7-2. ICOSL constructs lacking either the IgC or IgV domain demonstrates that receptor binding is mediated solely by the IgV domain but requires the IgC domain for maintaining the structural integrity of the protein.

Purity

>90%.

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Quantity	2.0mg/2ml PBS.
Availability	Back order, one month for production.
Storage	-70°C

GENE INFORMATION

Gene Name	Icosl icos ligand [Mus musculus]
Synonyms	Icosl; icos ligand; B7-H2; B7h; B7RP-1; GL50; GL50-B; ICOS-L; LICOS
Gene ID	50723
mRNA Refseq	NM_015790
Protein Refseq	NP_056605
UniProt ID	Q9JHJ8
Chromosome Location	10 C1
Pathway	Cell adhesion molecules (CAMs)
Function	protein binding; receptor activity

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