**Cynomolgus ICOS Ligand / B7-H2 Protein (Fc Tag)**

Catalog Number: 90800-C02H

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**General Information**

**Gene Name Synonym:**

ICOSLG

**Protein Construction:**

A DNA sequence encoding the cynomolgus ICOSLG (XP_005548617.1) (Met1-Thr256) was expressed with the Fc region of human IgG1 at the C-terminus.

**Source:** Cynomolgus

**Expression Host:** HEK293 Cells

**QC Testing**

**Purity:** > 95% as determined by SDS-PAGE.

**Endotoxin:**

< 1.0 EU per µg protein as determined by the LAL method.

**Stability:**

Samples are stable for up to twelve months from date of receipt at -70 °C.

**Predicted N terminal:** Asp 19

**Molecular Mass:**

The recombinant cynomolgus ICOSLG consists of 476 amino acids and predicts a molecular mass of 53.3 kDa.

**Formulation:**

Lyophilized from sterile PBS, pH 7.4.

Normally 5% - 8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

**Usage Guide**

**Storage:**

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

**Reconstitution:**

Detailed reconstitution instructions are sent along with the products.

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**SDS-PAGE:**

![SDS-PAGE Image]

**Protein 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. 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.

**References**


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