

# **Recombinant Mouse ICOS/CD278 Protein**

Catalog No.: RP01572 Recombinant

### **Sequence Information**

**Species Gene ID Swiss Prot** Mouse 54167 Q9WVS0

Tags C-hFc

**Synonyms** 

ICOS;CD278;AILIM;CVID1;ICOS

### **Product Information**

**Source** Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

40.15 kDa 55-60 kDa

#### **Endotoxin**

< 0.1 EU/ $\mu$ g of the protein by LAL method.

#### Formulation

Lyophilized from a  $0.22 \mu m$  filtered solution of PBS, pH 7.4.

#### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

### **Contact**

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### **Background**

Inducible costimulator (ICOS), also called AlLIM (Activation-Inducible Lymphocyte Immunomediatory Molecule) is a cell-surface receptor and belongs to the CD28 family of immune costimulatory receptors consisting of CD28, CTLA-4, and PD-1. The interaction of B7-H2/ICOS plays a critical role in Th cell differentiation, T/B cell interactions which are essential for the germinal center formation, and humoral immune responses, and as well as the production of cytokine IL-4. Also, ICOS is more potent in the induction of IL-10 production, a cytokine important for the suppressive function of T regulatory cells. The B7-1/B7-2--CD28/CTLA-4 and ICOS-B7RP-1 pathway provide key second signals that can regulate the activation, inhibition, and fine-tuning of T-lymphocyte responses. ICOS stimulates both Th1 and Th2 cytokine production but may have a preferential role in Th2 cell development. Moreover, The B7-1/B7-2-CD28/CTLA-4 and ICOS-B7RP-1 pathway has been suggested as being involved in the development of airway inflammation and airway hyperresponsiveness.

### **Basic Information**

#### Description

Recombinant Mouse ICOS/CD278 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu21-Leu144) of mouse ICOS/CD278 (Accession #NP\_059508.2) fused with a hFc tag at the C-terminus.

### **Bio-Activity**

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

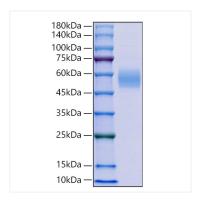
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

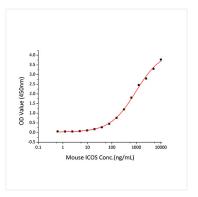
#### **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

## **Validation Data**



Recombinant Mouse ICOS/CD278 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Mouse ICOSLG at 5  $\mu$ g/mL (100  $\mu$ L/well) can bind Mouse ICOS with a linear range of 10-952.7 ng/mL