

Recombinant Mouse B7-H2/ICOSLG/CD275 Protein

Catalog No.: RP01548 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	50723	Q9JHJ8

Tags

C-His

Synonyms

ICOSLG;B7-H2;B7H2;B7RP-1;B7RP1;CD275;GL50;ICO-S-L;ICOSL;LICOS;ICOS ligand;ICOSLG

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
27.12 kDa	38-55 kDa

Endotoxin

<0.1EU/μg

Formulation

Lyophilized from a 0.22 μm 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

Background

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. The 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.

Basic Information

Description

Recombinant Mouse B7-H2/ICOSLG/CD275 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu47-Lys279) of mouse B7-H2/ICOSLG/CD275 (Accession #NP_056605.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

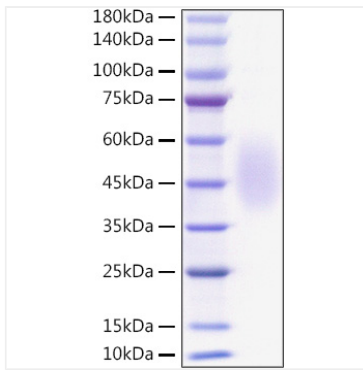
Storage

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

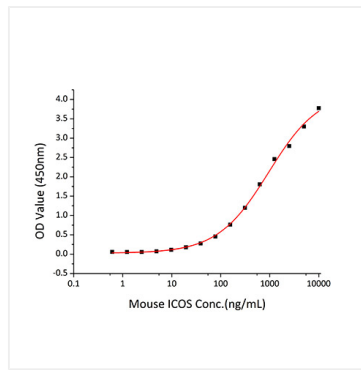
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse B7-H2/ICOSLG/CD275 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 38-50kDa.



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