

Recombinant Mouse B7-H2/ICOSLG/CD275 Protein

Catalog No.: RP01548

Sequence Information

Species **Gene ID**
Mouse 50723

Swiss Prot **Tags**
Q9JHJ8 C-His

Synonyms

ICOSLG,B7-H2,B7H2,B7RP-1,
B7RP1,CD275,GL50,ICOS-L,ICOSL,
LICOS,ICOS ligand,ICOSLG

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
 determined by
 SDS-PAGE.

Calculated MW **Observed MW**
27.12 kDa 35-60 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL
method.

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.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

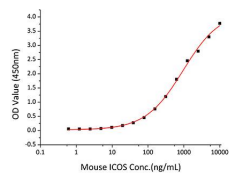
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☎ | 400-999-6126

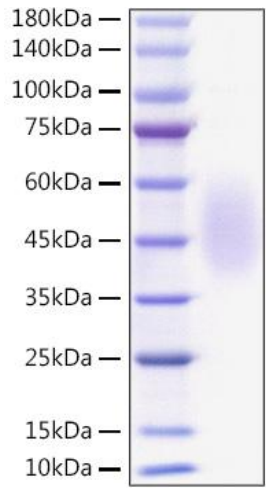
✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

Validation Data



Immobilized Mouse ICOSLG at 5 µg/mL (100 µL/well) can bind Mouse ICOS with a linear range of 10-952.7 ng/mL .



Recombinant Mouse B7-H2/ICOSLG/CD275 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.