

Recombinant Mouse ICOSL Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51914

Size: 10ug, 100ug

Protein Name: ICOS ligand (B7 homolog 2) (B7-H2) (B7-like protein GI50) (B7-related protein 1) (B7RP-1) (LICOS) (CD antigen CD275)

Synonym: Icoslg, B7h, B7h2, B7rp1, Icosl

UniProt ID: Q9JHJ8

UniProt Link: www.uniprot.org/uniprotkb/Q9JHJ8/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 322 AA

Molecular Weight: 36 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLQKPCPCFVSLGTRQPVWKKLHVSSGFFSGLGLFLLLLSSSLCAASAETEVGAMVGSNVVLSCIDPHR
RHFNLSGLYVYWQIENPEVSVTYLPLYPKSPGINVDSSYKNRGHLSLSMKQGNFSLYLKNVTPQDT
QEFTCRVFMNTATELVKILEEVRLRVAANFSTPVISTSDSSNPGQERTYTCMSKNGYPEPNLYWIN
TTDNSLIDTALQNNVTYLNKLGLYDVISTLRPLWTSRGDVLCCVENVALHQNITSISQAESFTGNNTK
NPQETHNNELKVLVPVLAVLAAAFVSFIIYRTRPHRSYTGPKTVQLELTDHA

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant ICOS ligand (B7 homolog 2) (B7-H2) (B7-like protein GI50) (B7-related protein 1) (B7RP-1) (LICOS) (CD antigen CD275) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Ligand for the T-cell-specific cell surface receptor ICOS (PubMed:10549624, PubMed:10617205, PubMed:10657606). Acts as a costimulatory signal for T-cell proliferation and cytokine secretion; also induces B-cell proliferation and differentiation into plasma cells (PubMed:10549624, PubMed:10617205, PubMed:10657606). Could play an important role in mediating local tissue responses to inflammatory conditions, as well as in modulating the secondary immune response by co-stimulating memory T-cell function (Probable). During pregnancy, may function to skew the cytokine of maternal T-cells toward immunoprotective Th2 phenotype.

Subcellular Localization: Cell membrane ; Single-pass type I membrane protein .; [Isoform 1]: Cell membrane .; [Isoform 2]: Cell membrane .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.