

# Recombinant Human ICOSL Protein

**For Research Use Only**

## 1. Basic Product Information

Catalog No.: REP50442

Size: 10ug, 100ug

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

Synonym: ICOSLG, B7H2, B7RP1, ICOSL, KIAA0653

UniProt ID: O75144

UniProt Link: [www.uniprot.org/uniprotkb/O75144/entry](http://www.uniprot.org/uniprotkb/O75144/entry)

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 302 AA

Molecular Weight: 33 KD

Protein Tag: C-terminal His6

## 2. Amino Acid Sequence

MRLGSPGLLFLLFSSLRADTQEKEVRAMVGSDVELSCACPEGSRFDLNDVYVYWQTSESKTVVTYH  
IPQNSSLENVDSRYRNRALMSPAGMLRGDFSLRLFNVTPQDEQKFHCLVLSQSLGFQEVLSVEVTL  
HVAANFSVPVVSAPHSPSQDELFTCTCTSYNGYPRPNVYWINKTDNSLLDQALQNDTVFLNMRGLYDV  
VSVLRIARTPSVNIGCCIEVLLQQNLTVGSQTGNDIGERDKITENPVSTGEKNAATWSILAVLCLLVV  
VAVAIGWVCRDRCLQHSYAGAWAVSPETELTGHV

## 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) (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. Acts as a costimulatory signal for T-cell proliferation and cytokine secretion (PubMed:11007762, PubMed:11023515, PubMed:30498080). Also induces B-cell proliferation and differentiation into plasma cells. 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 (By similarity). In endothelial cells, required for proper neutrophil transmigration in response to chemoattractants, such as CXCL8/IL8 or N-formyl-methionyl peptides (fMLP) (PubMed:30498080).

**Subcellular Localization:** Cell membrane ; Single-pass type I membrane protein .; [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.