



Recombinant Protein Technical Manual

Recombinant Human ICOS Ligand/ICOSL Protein (Fc Tag)

RPES1068

Product Data:

Product SKU: RPES1068

Size: 100µg

Species: Human

Expression host: HEK293 Cells

Uniprot: O75144

Protein Information:

Molecular Mass: 53.7 kDa

AP Molecular Mass: 66-76 & 33 kDa

Tag: C-Fc

Bio-activity:

Purity: (96.1±2.0) % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: ICOS Ligand; B7 Homolog 2; B7-H2; B7-Like Protein GI50; B7-Related Protein 1; B7RP; CD275; ICOSLG; B7H2; B7RP1; ICOSL; KIAA0653

Immunogen Information:

Sequence: Met 1-Ser258

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 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. Present study shows that ICOSL displays a marked oligomerization potential, resembling more like B7 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.