10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

B7-H2/ICOSLG

Catalog # PVGS1559

Product Information

Primary Accession	O75144
Species	Human
Sequence	Asp19-Ser258
Purity	> 97% as analyzed by SDS-PAGE
Endotoxin Level	
Biological Activity	Immobilized ICOS, hFc, Human (Cat. No.: Z03412) at 5.0 μg/ml (100 μl/well) can bind biotinylated B7-H2/ICOSLG, hFc, Human when detected by Streptavidin-HRP second antibody.
Expression System	HEK 293
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS, 5% trehalose and mannitol.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH_2O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Additional Information

Gene ID	23308
Other Names	ICOS ligand, B7 homolog 2, B7-H2, B7-like protein Gl50, B7-related protein 1, B7RP-1, CD275, ICOSLG
Target Background	B7-H2, best known as the ligand of inducible co-stimulator, belongs to B7-CD28 family. B7-H2 is a transmembrane glycoprotein of approximately 60 kDa and is expressed on antigen presenting cells such as B cells, macrophages, dendritic cells, and also in monocytes. It's a ligand for CD28 and CTLA-4 in human, whereas these interactions are not conserved in mouse. B7-H2 and B7-1 or B7-2 interacts with CD28 through distinctive domains. B7-H2-CD28 interaction is essential for the co-stimulation of human T cells' primary responses to allogeneic antigens and memory recall responses.Recombinant Human B7-H2 Fc Chimera produced in HEK293 cells. It's a polypeptide chain containing 473 amino acids with the C-termimal human IgG1 Fc fragment. A fully biologically active molecule, rhB7-H2 has a molecular mass of 70-80 kDa, analyzed by reducing SDS-PAGE and is obtained

by chromatographic techniques at .

Protein Information

Name	ICOSLG
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).
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Expressed on peripheral blood B-cells and monocytes, as well as on monocyte-derived dendritic cells (at protein level). [Isoform 2]: Detected only in lymph nodes, leukocytes and spleen. Expressed on activated monocytes and dendritic cells.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.