Overview

Synonyms	ICOSLG; B7-H2; B7H2; B7RP-1; B7RP1; CD275; GL50; ICOS-L; ICOSL; LICOS; ICOS ligand
Description	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.
Accession No	O75144
Species	Human
Source	*HEK293*
Biological Activity	Immobilized ICOS Fc Chimera, Human(Cat:Z03412) at 5 μg/mL (100 μL/well) can bind Biotin-B7-H2/ICOSLG Fc Chimera, Human with a linear range of 0.76-12.21ng/mL when detected by Streptavidin-HRP second antibody..
Sequence	DTQEKEVR AMVGSDVE LSCACPEG SRFDLNDV YVYWQTSE SKTVVTYH IPQNSSLE NVDSRYRN RALMSPAG MLRGDFSL RLFNVTPQ DEQKFHCL VLSQSLGF QEVLSVEV TLHVAANF SVPVVSAP HSPSQDEL TFTCTSIN GYPRPNVY WINKTDNS LLDQALQN DTVFLNMR GLYDVVSV LRIARTPS VNIGCCIE NVLLQQNL TVGSQTGN DIGERDKI TENPVSTG EKNAATWS

Properties

Measured Molecular Weight	70-80 kDa, observed by reducing SDS-PAGE.
Purity	> 97% as analyzed by reducing SDS-PAGE.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS, 5% trehalose and mannitol.
Reconstitution	Reconstituted in ddH_2O at 100 μg/mL.
Endotoxin Level	< 0.2 EU/μg, determined by LAL method.
Storage	Lyophilized recombinant B7-H2 Fc Chimera, Human remains stable for up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human B7-H2 Fc 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.
Note	For research use only

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