DATASHEET
Version 20181206

B7-H2/ICOSLG Fc Chimera, Human

Cat. No.: Z03414-1

Size: 1.0 mg

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 at GenScript.

Amino Acid Sequence:

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00001 DTQEKEVRAM VGSDVELSCA CPEGSRFDLN DVYVYWQTSE
00041 SKTVVTYHIP QNSSLENVDS RYRNRALMSP AGMLRGDFSL
00081 RLFNVTPQDE QKFHCLVLSQ SLGFQEVLSV EVTLHVAANF
00121 SVPVVSAPHS PSQDELTFTC TSINGYPRPN VYWINKTDNS
00161 LLDQALQNDT VFLNMRGLYD VVSVLRIART PSVNIGCCIE
00201 NVLLQQNLTV GSQTGNDIGE RDKITENPVS TGEKNAATWS
00241
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Source: *HEK293*

Species: Human

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..

Molecular Weight: 70-80 kDa, observed 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.

Purity: > 97% as analyzed by reducing SDS-PAGE.

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.

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