

DATASHEET

Version 20181206

B7-H2/ICOSLG His, Human

Cat. No.: Z03415-1

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 costimulator, belongs to B7-CD28 family, is a transmembrane glycoprotein of approximately 60 kDa. B7-H2 is expressed on antigen presenting cells such as B cells, macrophages, dendritic cells, and also in monocytes, and is 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 interacted with CD28 through distinctive domains. B7-H2-CD28 interaction is essential for the costimulation of human T cells' primary responses to allogeneic antigens and memory recall responses.

Recombinant Human B7-H2/ICOSLG produced in HEK293 cells is a polypeptide chain containing 250 amino acids with C-terminal 10His. A fully biologically active molecule, rhB7-H2/ICOSLG has a molecular mass of 45-55 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 DVYVYQQTSE
00041 SKTVVYTHIP QNSSLENVDS RYRNRALMSP AGMLRGDFSL
00081 RLFNVTPQDE QKFHCLVLSQ SLGFQEVLSV EVTLHVAANF
00121 SVPVVSAPHS PSQDELTFTC TSINGYPRPN VVWINKTDNS
00161 LLDQALQNDT VFLNMRGLYD VVSVLRIART PSVNIGCCIE
00201 NVLLQQNLTV GSQTGNDIGE RDKITENPVS TGEKNAATWS
00241 HHHHHHHHHH
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Source: HEK293

Species: Human

Biological Activity: Immobilized B7-H2-6His, Human at 1µg/mL (100 µL/well) can bind ICOS Fc Chimera, Human(Z03412) with a linear range of 2.29-185.2ng/mL.

Molecular Weight: 45-55 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS, 5% trehalose and mannitol.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 95% as analyzed by reducing SDS-PAGE.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant B7-H2/ICOSLG, His, Human remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human B7-H2/ICOSLG should be stable 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.