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 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.
Accession No	O75144
Species	Human
Source	*HEK293*
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.
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 HHHHHHHH HH

Properties

Measured Molecular Weight	45-55 kDa, observed by reducing SDS-PAGE.
Purity	> 95% 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 or PBS at 100 μg/ml.
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.
Note	For research use only

India Contact:
Life Technologies (India) Pvt. Ltd.
306, Aggarwal City Mall, Opposite M2K Pitampura,
Delhi – 110034 (INDIA).
Mobile: +91-9810521400, Ph: +91-11-42208000
Email: customerservice@lifetechindia.com
Web: www.lifetechindia.com