

B7-H2/ICOSLG Protein, Human, Recombinant (His & Avi)

General Information

Synonyms:	B7RP1B7-like protein GL50;B7-H2B7-related protein 1;ICOSLG;LICOS;B7RP-1;B7RP1;ICOSL;CD275;ICOS-L;GL50;ICOS ligand;B7H2;B7-H2
Protein Construction:	Asp19-Ser258
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O75144
Molecular Weight:	29.5 kDa (predicted). Due to glycosylation, the protein migrates to 55-70 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	1. Immobilized Human B7-H2, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human ICOS, hFc Tag with the EC50 of 23.6ng/ml determined by ELISA. 2. Human ICOS, hFc Tag (Q50A) captured on CM5 Chip via Protein A can bind Human B7-H2, His Tag with an affinity constant of 41.98 nM as determined in SPR assay.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

B7-H2, also known as B7-related protein (B7RP1), ICOS Ligand, and CD275, is an approximately 60 kDa transmembrane glycoprotein in the B7 family of immune regulatory molecules. B7-H2 is a ligand for the T-cell-

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specific cell surface receptor ICOS. Acts as a costimulatory signal for T-cell proliferation and cytokine secretion; induces also B-cell proliferation and differentiation into plasma cells.

Reference

Yao S, et al. Advances in targeting cell surface signalling molecules for immune modulation[J]. Nature Reviews Drug Discovery, 2013, 12(2):130-146.

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