

# Human B7-H2/ICOSLG Protein

Cat. No. BH7-HM472

## Description

<b>Source</b>	Recombinant Human B7-H2/ICOSLG Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Asp19-Ser258.
<b>Accession</b>	O75144
<b>Molecular Weight</b>	The protein has a predicted MW of 29.5 kDa. Due to glycosylation, the protein migrates to 55-70 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

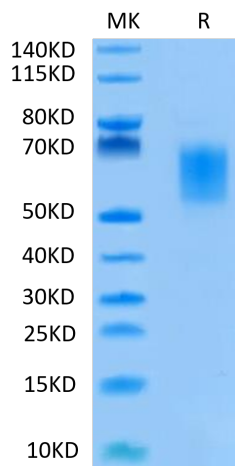
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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-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.

## Assay Data

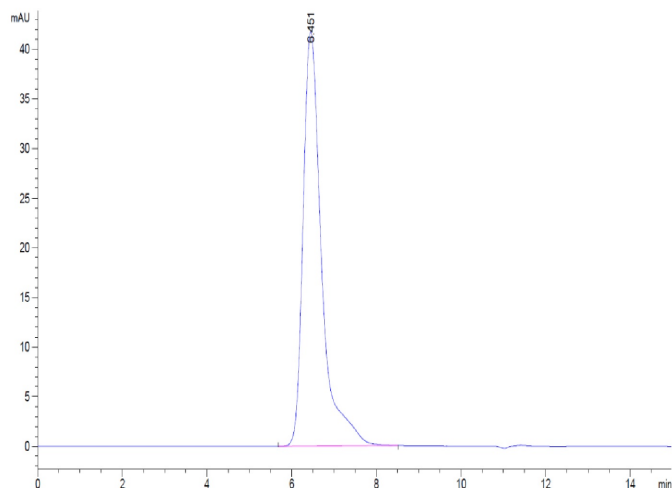
### Tris-Bis PAGE



Human B7-H2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

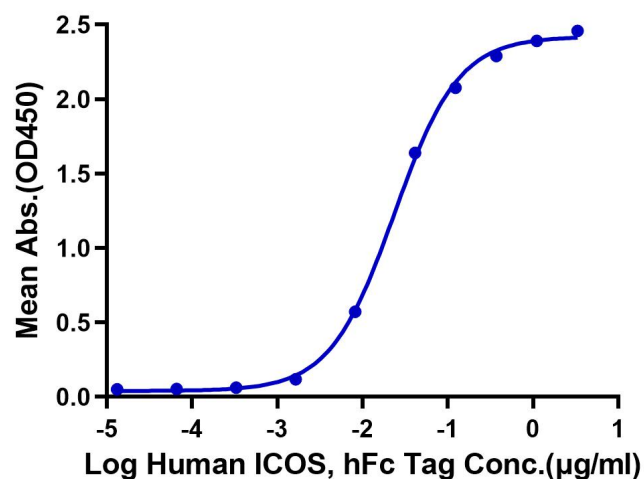


The purity of Human B7-H2 is greater than 95% as determined by SEC-HPLC.

ELISA Data

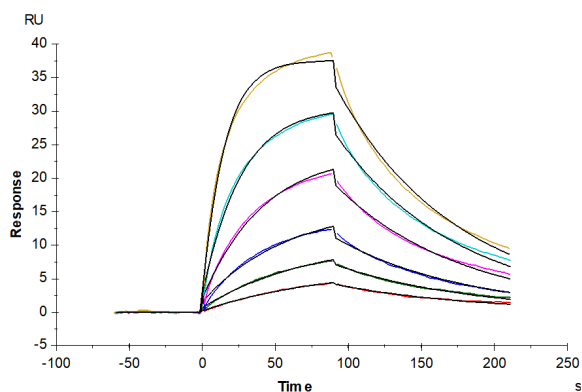
Human B7-H2, His Tag ELISA

0.05µg Human B7-H2, His Tag Per Well



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.

SPR Data



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 (Biacore T200).