

# Human B7-H2/ICOSLG Protein

Cat. No. BH7-HM272



## Description

<b>Source</b>	Recombinant Human B7-H2/ICOSLG Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Asp19-Ser258.
<b>Accession</b>	O75144-1
<b>Molecular Weight</b>	The protein has a predicted MW of 53.4 kDa. Due to glycosylation, the protein migrates to 75-100 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

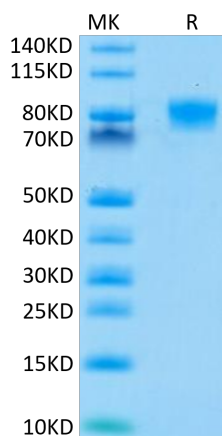
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months 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.

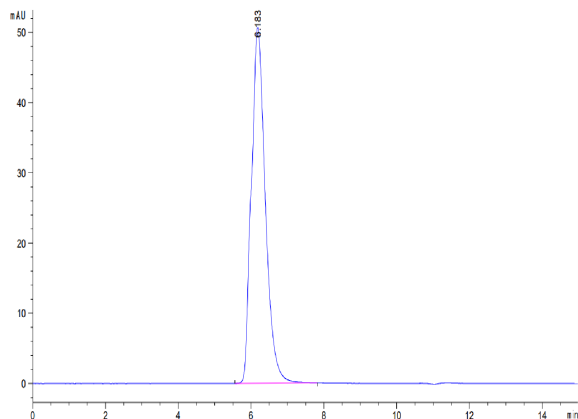
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



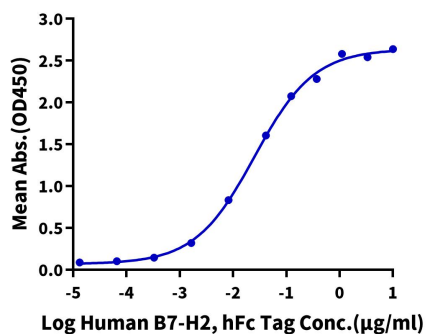
The purity of Human B7-H2 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

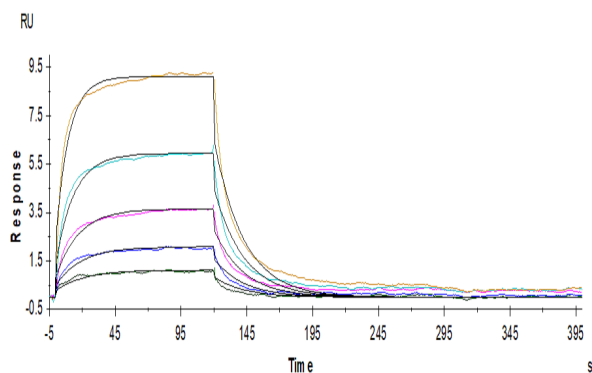
**Human B7-H2, hFc Tag ELISA**

0.05µg Human ICOS, His Tag Per Well



Immobilized Human ICOS, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human B7-H2, hFc Tag with the EC50 of 25.3ng/ml determined by ELISA (QC Test).

SPR Data



Human B7-H2 captured on Protein A chip, can bind Human ICOS (C136S,C137S) , His Tag with an affinity constant of 40.2nM as determined in a SPR assay (Biacore T200).