

## Description

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

## Formulation and Storage

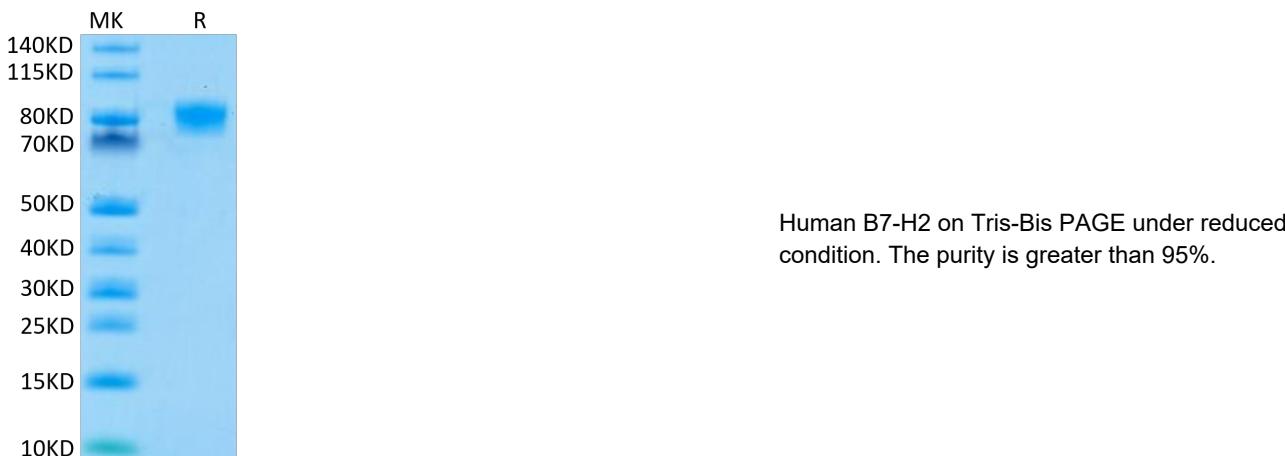
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-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.

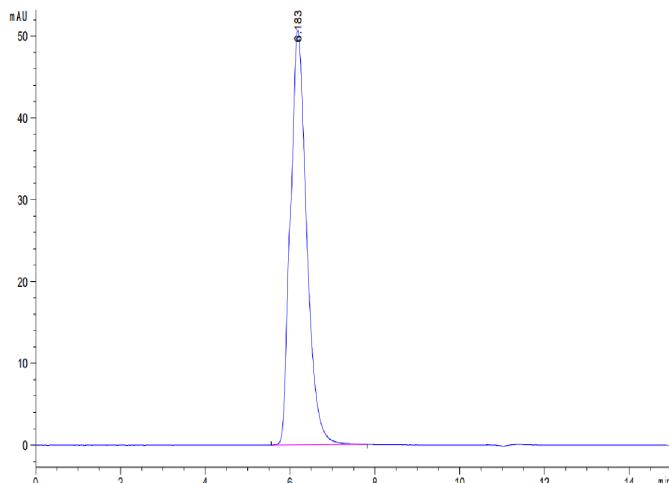
## Assay Data

## Tris-Bis PAGE



## SEC-HPLC

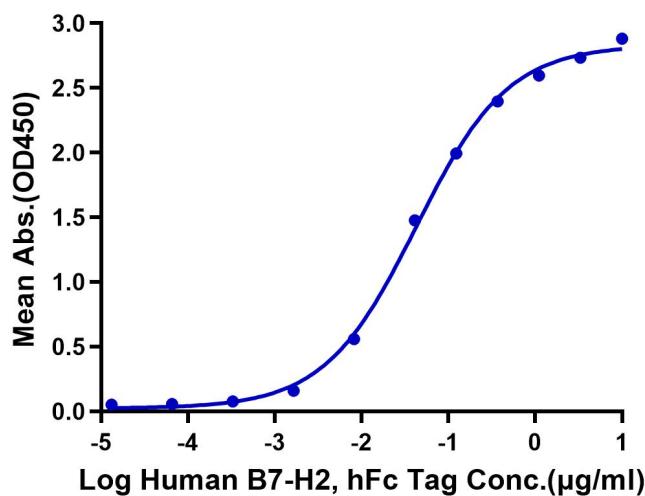
## Assay Data



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

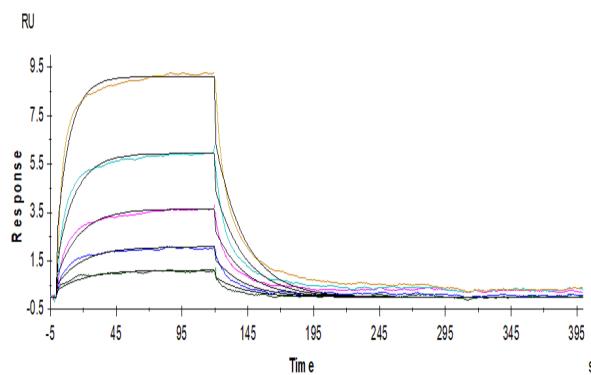
## ELISA Data

**Human B7-H2, hFc Tag ELISA**  
0.05 $\mu$ g Human ICOS, His Tag Per Well



Immobilized Human ICOS, His Tag at 0.5 $\mu$ g/ml (100 $\mu$ l/Well) on the plate. Dose response curve for Human B7-H2, hFc Tag with the EC50 of 42.7ng/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).