

# Rat B7-H2/ICOSLG Protein

Cat. No. BH7-RM172

## Description

<b>Source</b>	Recombinant Rat B7-H2/ICOSLG Protein is expressed from HEK293 with His tag at the C-terminus. It contains Glu25-Lys261.
<b>Accession</b>	F1LVL2
<b>Molecular Weight</b>	The protein has a predicted MW of 28.52 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.1 EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

## Formulation and Storage

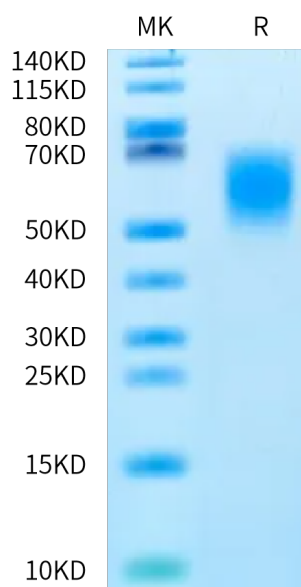
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<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

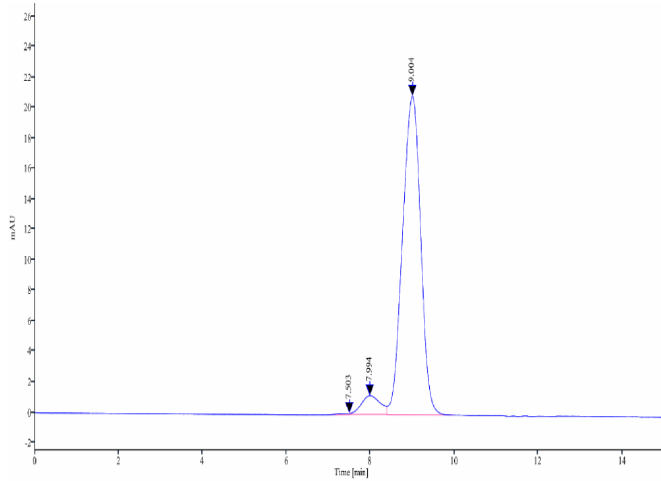
### Bis-Tris PAGE



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

### SEC-HPLC

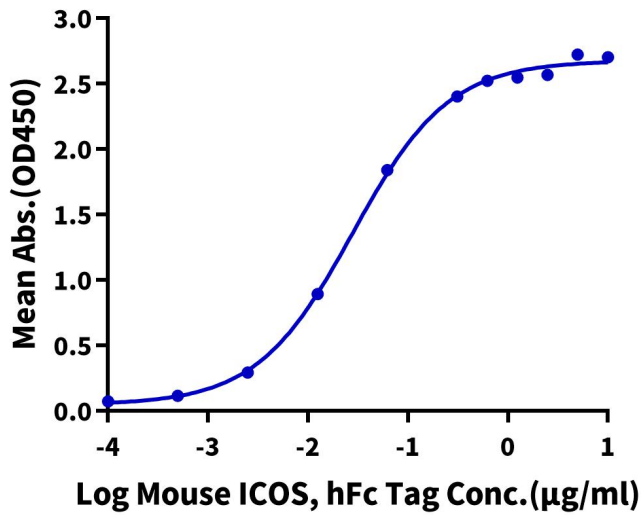
Assay Data



The purity of Rat B7-H2 is greater than 90% as determined by SEC-HPLC.

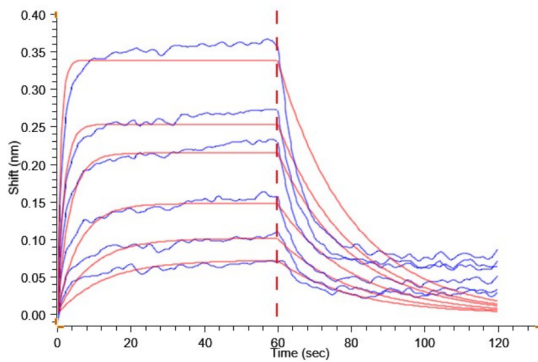
ELISA Data

**Rat B7-H2, His Tag ELISA**  
0.1µg Rat B7-H2, His Tag Per Well



Immobilized Rat B7-H2, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Mouse ICOS, hFc Tag with the EC50 of 28.2ng/ml determined by ELISA.

BLI Data



Loaded Mouse ICOS, hFc Tag on ProA-Biosensor can bind Rat B7-H2, His Tag with an affinity constant of 0.40 µM as determined in BLI assay .