

# Mouse B7-H2/ICOSLG Protein

Cat. No. BH7-MM172

## Description

<b>Source</b>	Recombinant Mouse B7-H2/ICOSLG Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu47-Lys279.
<b>Accession</b>	Q9JHJ8-1
<b>Molecular Weight</b>	The protein has a predicted MW of 27.4 kDa. Due to glycosylation, the protein migrates to 45-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

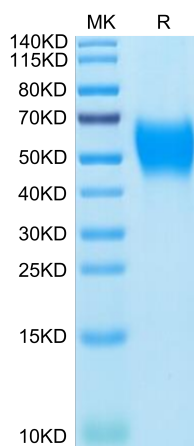
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. 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.

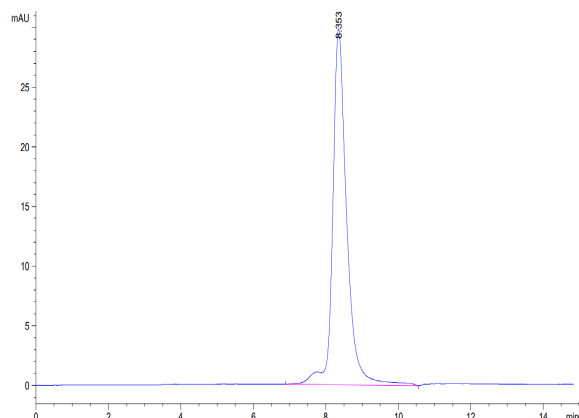
## Assay Data

### Bis-Tris PAGE



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

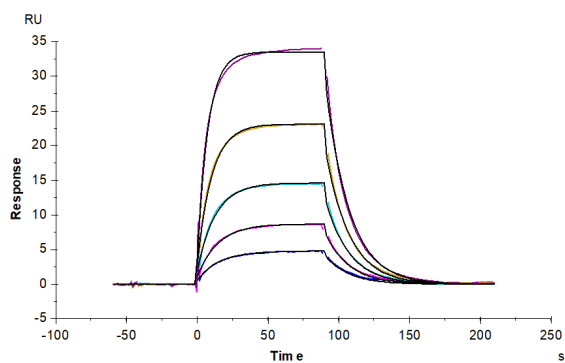
### SEC-HPLC



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

Assay Data

SPR Data



Mouse ICOS, hFc Tag captured on CM5 Chip via Protein A can bind Mouse B7-H2, His Tag with an affinity constant of 0.329  $\mu\text{M}$  as determined in SPR assay (Biacore T200).