

# Mouse B7-H2/ICOSLG Protein

Cat. No. BH7-MM172

KACUS

## Description

Source	Recombinant Mouse B7-H2/ICOSLG Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Glu47-Lys279.
Accession	Q9JHJ8-1
Molecular Weight	The protein has a predicted MW of 27.4 kDa. Due to glycosylation, the protein migrates to 45-70 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

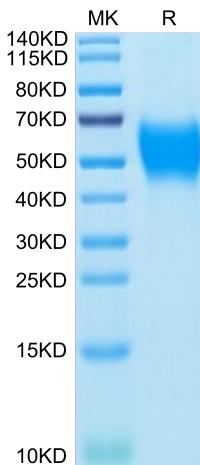
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled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

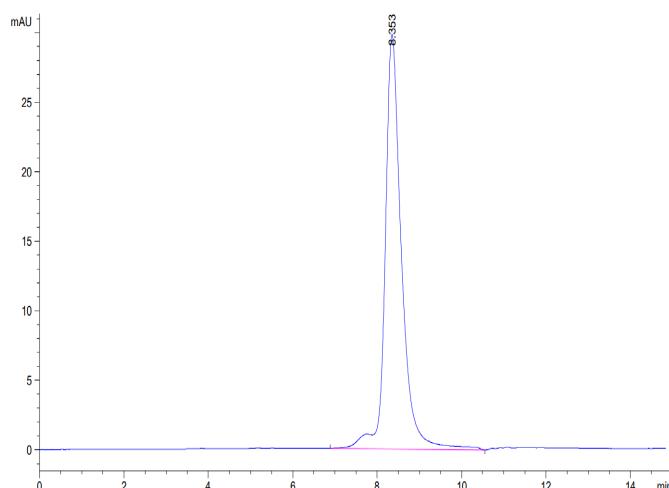
### Tris-Bis PAGE



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

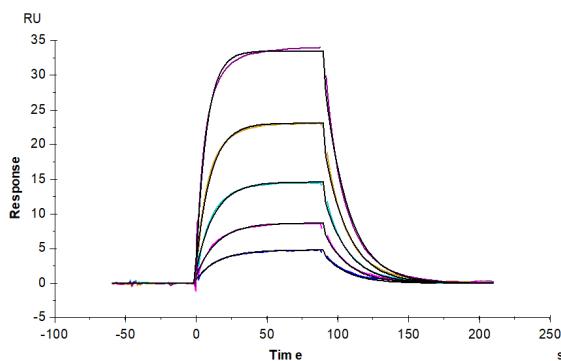
### SEC-HPLC

## Assay Data



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

## 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).