

Mouse B7-H2/ICOSLG Protein

Cat. No. BH7-MM172



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 Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

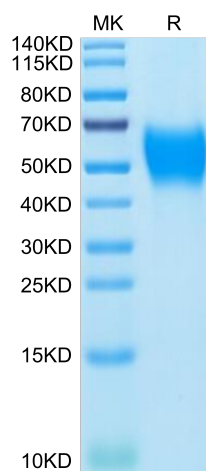
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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.

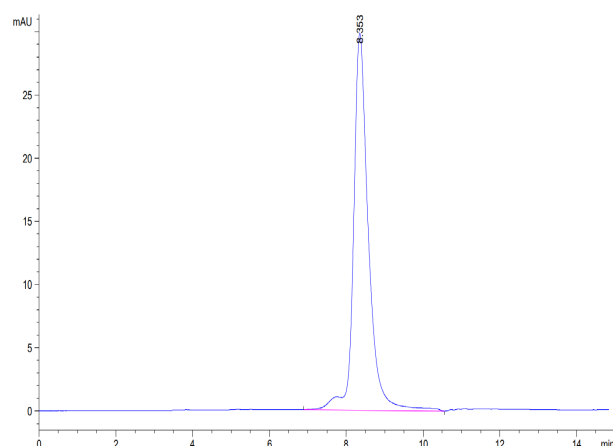
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



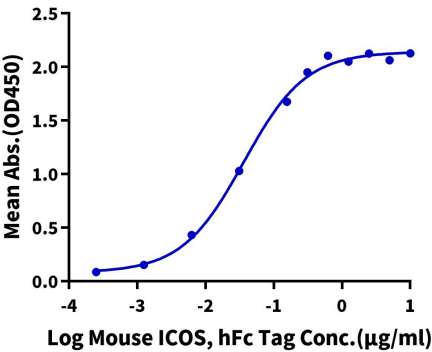
The purity of Mouse B7-H2 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

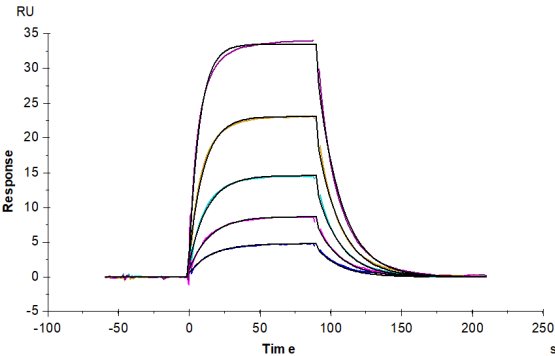
Mouse B7-H2, His Tag ELISA

0.2μg Mouse B7-H2, His Tag Per Well



Immobilized Mouse B7-H2, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Mouse ICOS, hFc Tag with the EC50 of 36.2ng/ml determined by ELISA.

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 μM as determined in SPR assay (Biacore T200).