Rat B7-H2/ICOSLG Protein, Ultra Low Endotoxin

Cat. No. BH7-RM172-UL

Description

Source	Recombinant Rat B7-H2/ICOSLG Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Glu25-Lys261.
Accession	F1LVL2
Molecular Weight	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.
Endotoxin	Less than 0.01 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 90% as determined by HPLC

Formulation and Storage

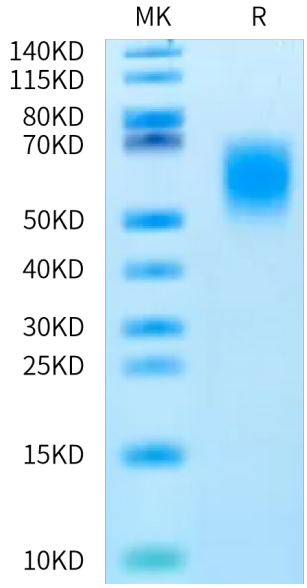
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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



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

SEC-HPLC

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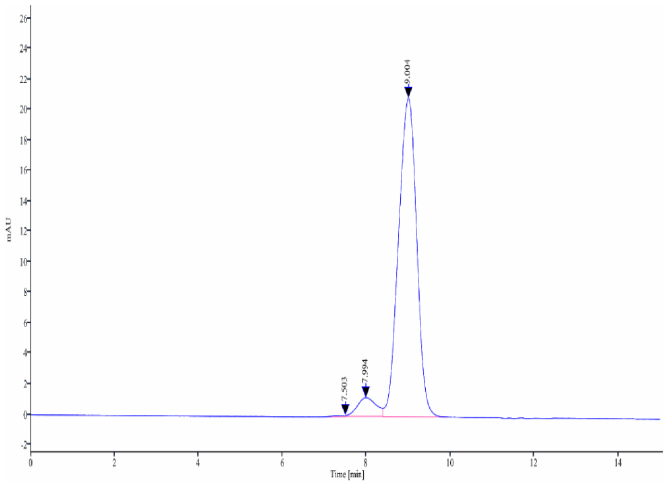
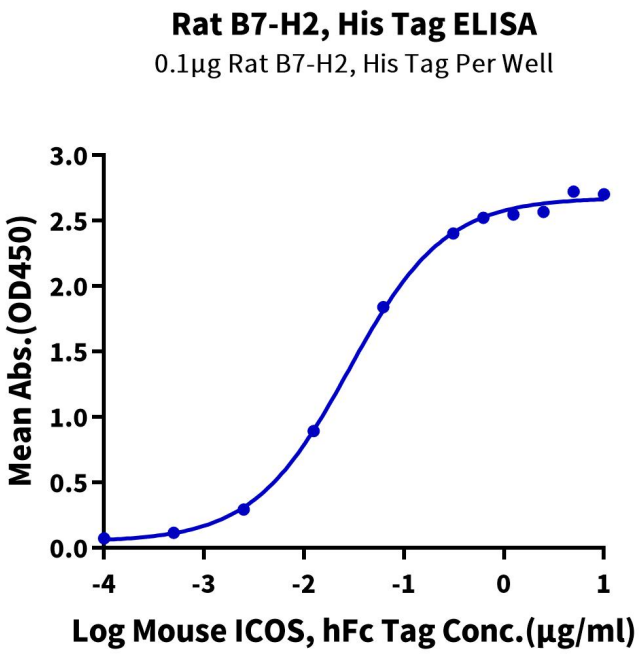
Assay Data



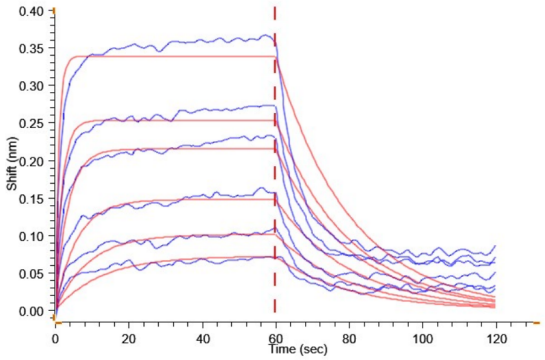
The purity of Rat B7-H2 is greater than 90% as determined by SEC-HPLC.

ELISA Data



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 .