

Human B7-H2/ICOSLG Protein



Cat. No. BH7-HM472

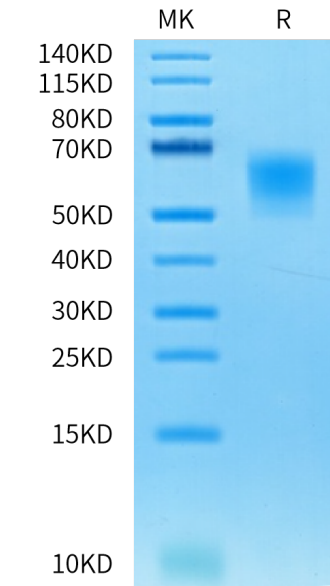
| Description | |
|------------------|--|
| Source | Recombinant Human B7-H2/ICOSLG Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Asp19-Ser258. |
| Accession | O75144 |
| Molecular Weight | The protein has a predicted MW of 29.5 kDa. Due to glycosylation, the protein migrates to 50-70 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 > 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

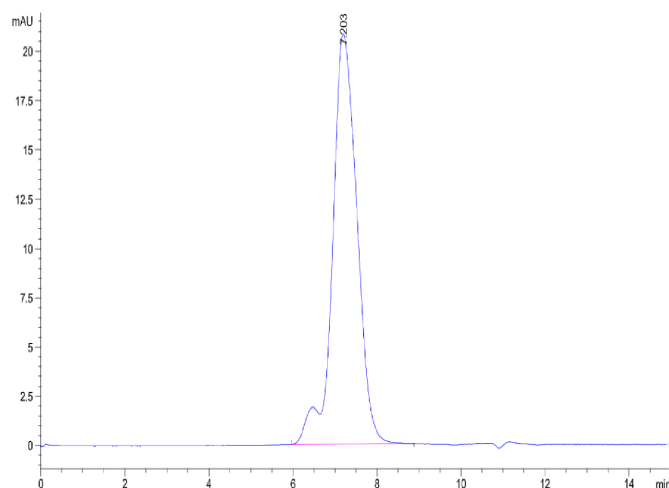
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

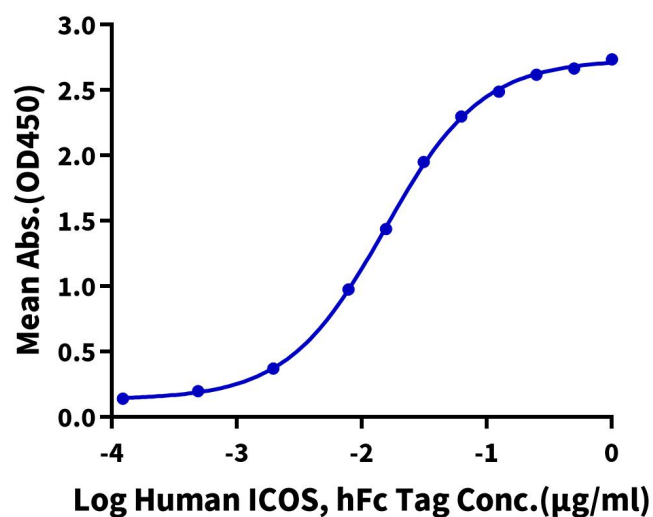


The purity of Human B7-H2 is greater than 90% as determined by SEC-HPLC.

ELISA Data

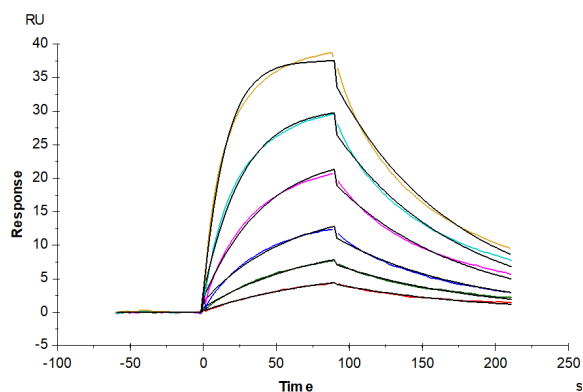
Human B7-H2, His Tag ELISA

0.1 µg Human B7-H2, His Tag Per Well



Immobilized Human B7-H2, His Tag at 1 µg/ml (100 µl/Well) on the plate. Dose response curve for Human ICOS, hFc Tag with the EC₅₀ of 15.2 ng/ml determined by ELISA (QC Test).

SPR Data



Human ICOS, hFc Tag (Q50A) captured on CM5 Chip via Protein A can bind Human B7-H2, His Tag with an affinity constant of 41.98 nM as determined in SPR assay (Biacore T200).