Human B7-H3/CD276 Protein, Ultra Low Endotoxin

Cat. No. BH7-HM173-UL

Description

Source	Recombinant Human B7-H3/CD276 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Leu29-Pro245.
Accession	Q5ZPR3-2
Molecular Weight	The protein has a predicted MW of 24.7 kDa. Due to glycosylation, the protein migrates to 40-50 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
	> 95% as determined by HPLC

Formulation and Storage

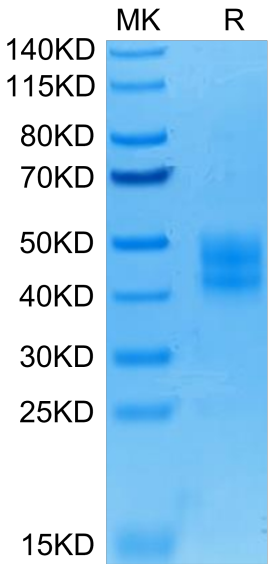
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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-H3, a member of the B7 family of immunomodulatory molecules, is overexpressed in a wide range of solid cancers. B7-H3 binds to activated T cells via an as yet unidentified receptor. In assays using sub-optimal amount so anti-CD3 stimulation, 2IgB7H3 enhances T cell proliferation, T cell interferon-gamma (IFN-gamma) production, and cytotoxic T cells induction.

Assay Data

Bis-Tris PAGE



Human B7-H3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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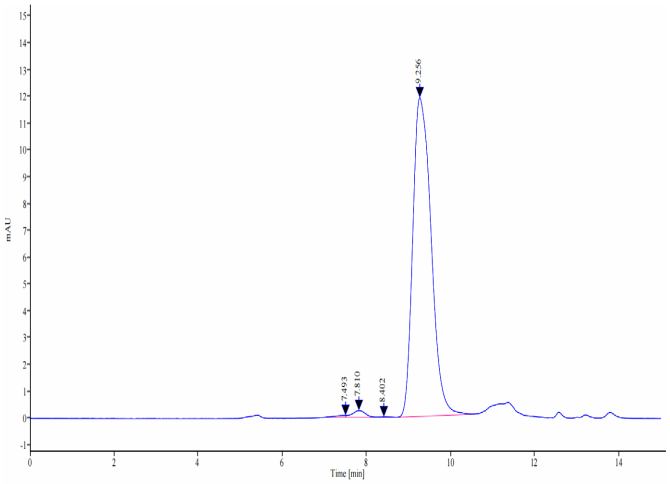
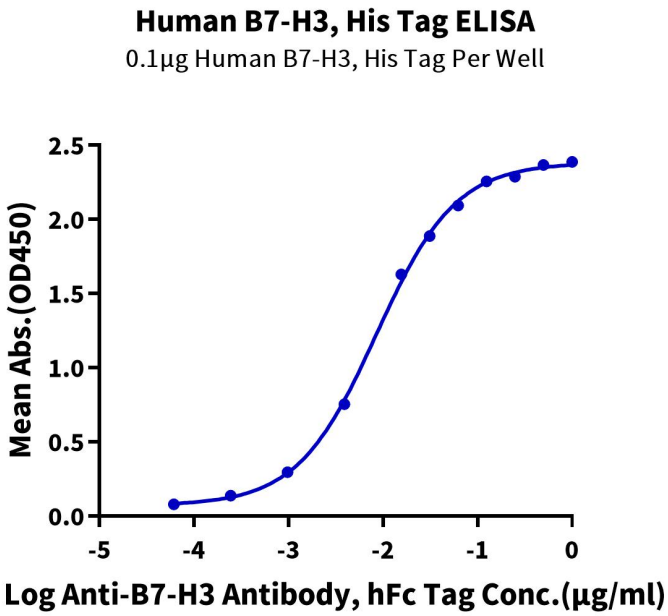
Assay Data



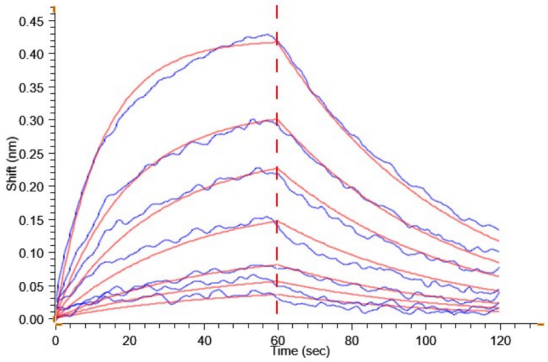
The purity of Human B7-H3 is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human B7-H3, His Tag at 1 μg/ml (100 μl/Well) on the plate. Dose response curve for Anti-B7-H3 Antibody, hFc Tag with the EC50 of 8.5 ng/ml determined by ELISA.

BLI Data



Loaded Anti-B7-H3 Ab., hFc Tag on ProA-Biosensor can bind Human B7-H3, His Tag with an affinity constant of 0.73 μM as determined in BLI assay .