

# Human B7-H3 (4Ig) /B7-H3b Protein

Cat. No. BH7-HM43B

## Description

<b>Source</b>	Recombinant Human B7-H3 (4Ig)/B7-H3b Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gly27-Thr461.
<b>Accession</b>	Q5ZPR3-1
<b>Molecular Weight</b>	The protein has a predicted MW of 49.5 kDa. Due to glycosylation, the protein migrates to 70-80 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

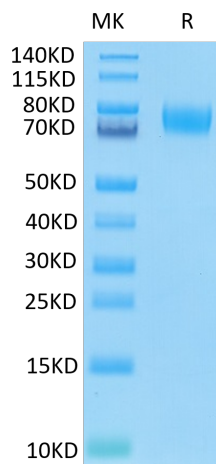
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein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

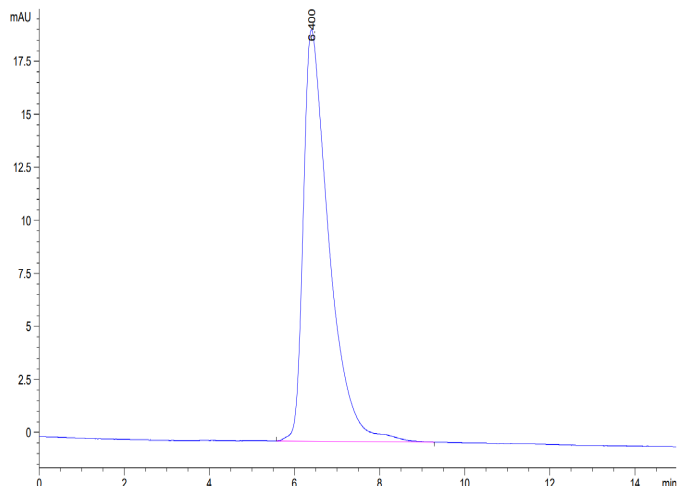
### Tris-Bis PAGE



Human B7-H3 (4Ig) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

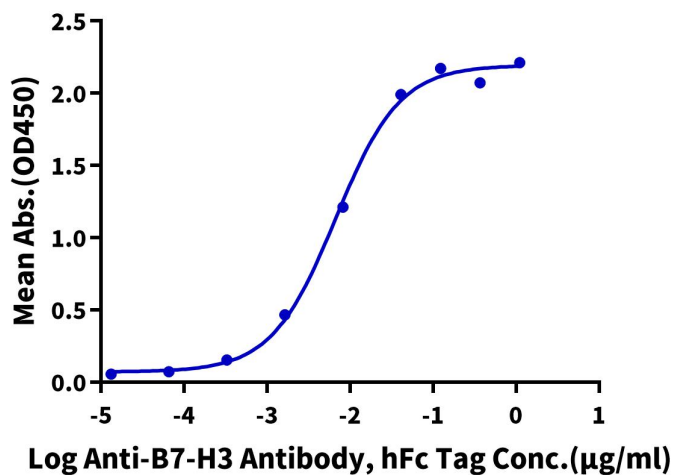


The purity of Human B7-H3 (4Ig) is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Human B7-H3 (4Ig), His Tag ELISA**

0.05µg Human B7-H3 (4Ig), His Tag Per Well



Immobilized Human B7-H3 (4Ig) , His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-B7-H3 Antibody, hFc Tag with the EC50 of 6.7ng/ml determined by ELISA.