

# Biotinylated Human B7-H4 Protein

Cat. No. BH7-HM174B

## Description

<b>Source</b>	Recombinant Biotinylated Human B7-H4 Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Phe29-Ala258.
<b>Accession</b>	Q7Z7D3-1
<b>Molecular Weight</b>	The protein has a predicted MW of 28.2 kDa. Due to glycosylation, the protein migrates to 60-70 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

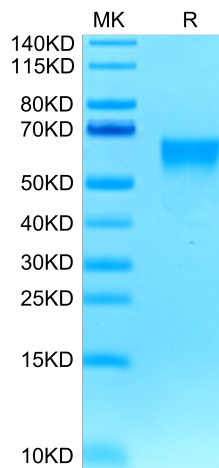
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). 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 avoid freeze-thaw cycles.

## Background

B7-H4, also known as B7x and B7S1, is a 50-80 kDa glycosylated member of the B7 family of immunomodulatory proteins. B7-H4 is up-regulated in several carcinomas in correlation with tumor progression and metastasis. A soluble form of B7-H4 is elevated in the serum of ovarian cancer, renal cell carcinoma, and rheumatoid arthritis patients, also in correlation with advanced disease status.

## Assay Data

### Tris-Bis PAGE



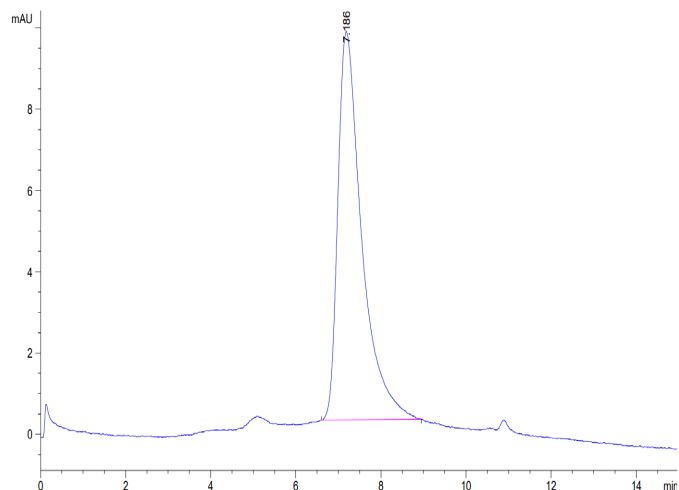
Biotinylated Human B7-H4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

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## Assay Data

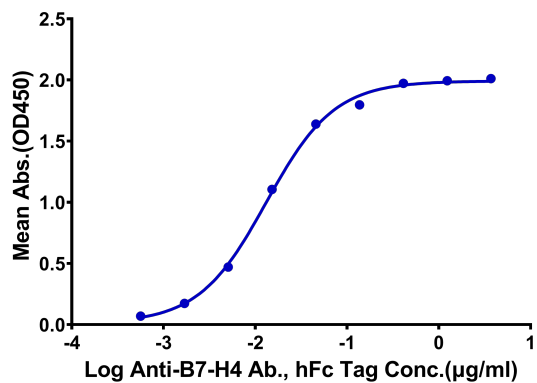


The purity of Biotinylated Human B7-H4 is greater than 95% as determined by SEC-HPLC.

## ELISA Data

### Biotinylated Human B7-H4, His Tag ELISA

0.05µg Biotinylated Human B7-H4, His Tag Per Well



Immobilized Biotinylated Human B7-H4, His Tag at 0.5µg/ml (100µl/Well). Dose response curve for Anti-B7-H4 Ab., hFc Tag with the EC50 of 13.23ng/ml determined by ELISA.