

# Human B7-H4 Protein

Cat. No. BH7-HM274



## Description

Source	Recombinant Human B7-H4 Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Phe29-Ala258.
Accession	Q7Z7D3-1
Molecular Weight	The protein has a predicted MW of 52.1 kDa. Due to glycosylation, the protein migrates to 70-80 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

## Formulation and Storage

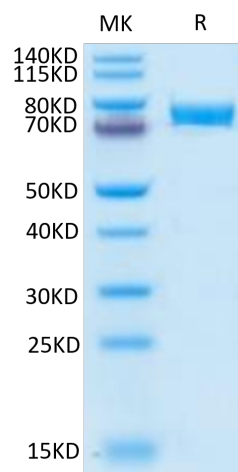
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled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



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

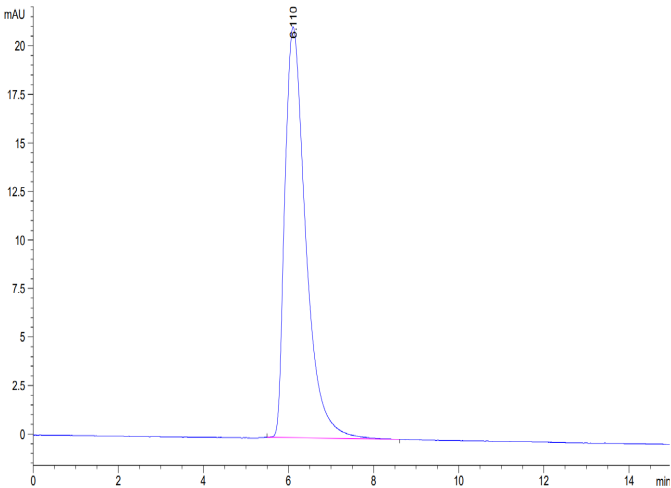
### SEC-HPLC

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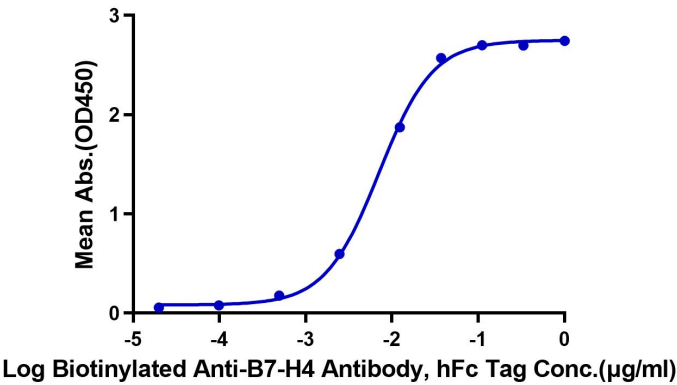
Assay Data



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

ELISA Data

Human B7-H4, hFc Tag ELISA  
0.05µg Human B7-H4, hFc Tag Per Well



Immobilized Human B7-H4, hFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-B7-H4 Antibody, hFc Tag with the EC50 of 7ng/ml determined by ELISA.