

# Human B7-H4 Protein

Cat. No. BH7-HM174

## Description

|                         |  |
|-------------------------|--|
| <b>Source</b>           | Recombinant Human B7-H4 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.<br>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 52-68 kDa based on Bis-Tris PAGE result. |
| <b>Endotoxin</b>        | Less than 1 EU per µg by the LAL method.   |
| <b>Purity</b>           | >95% as determined by Bis-Tris PAGE<br>>95% as determined by HPLC  |

## Formulation and Storage

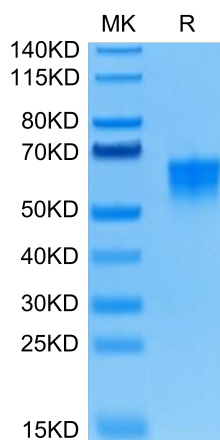
|                       |   |
|-----------------------|---|
| <b>Formulation</b>    | Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.   |
| <b>Reconstitution</b> | Centrifuge the tube before opening. Reconstituting to a concentration 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. -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-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 .

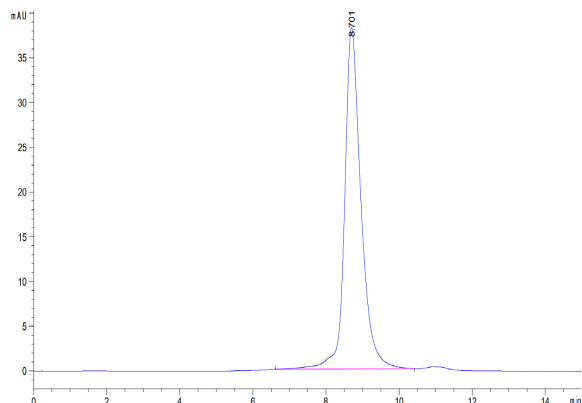
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



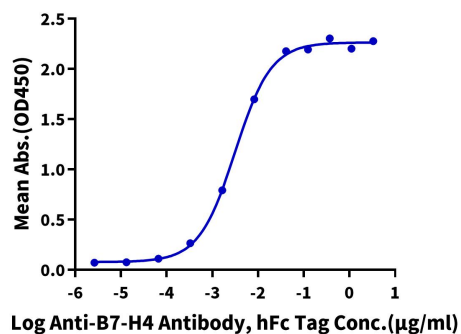
The purity of Human B7-H4 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human B7-H4, His Tag ELISA

0.05µg Human B7-H4, His Tag Per Well



Immobilized Human B7-H4, His Tag at 0.5 µg/ml (100 µl/Well) on the plate. Dose response curve for Anti-B7-H4 Antibody, hFc Tag with the EC50 of 3.1 ng/ml determined by ELISA.