

Human B7-H4 Protein

Cat. No. BH7-HM104

Description

| | |
|-------------------------|---|
| Source | Recombinant Human B7-H4 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Phe29-Ala258. |
| Accession | Q7Z7D3-1 |
| Molecular Weight | The protein has a predicted MW of 26.92 kDa. Due to glycosylation, the protein migrates to 50-65 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 0.1 EU per μg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |

Formulation and Storage

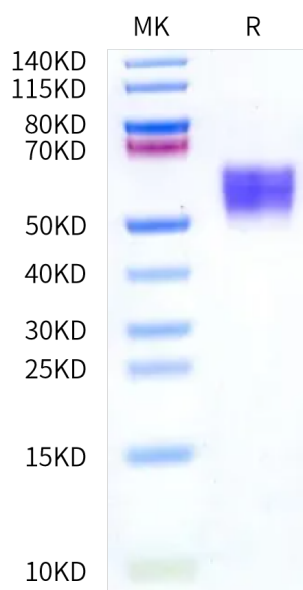
| | |
|-----------------------|---|
| Formulation | Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for 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-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

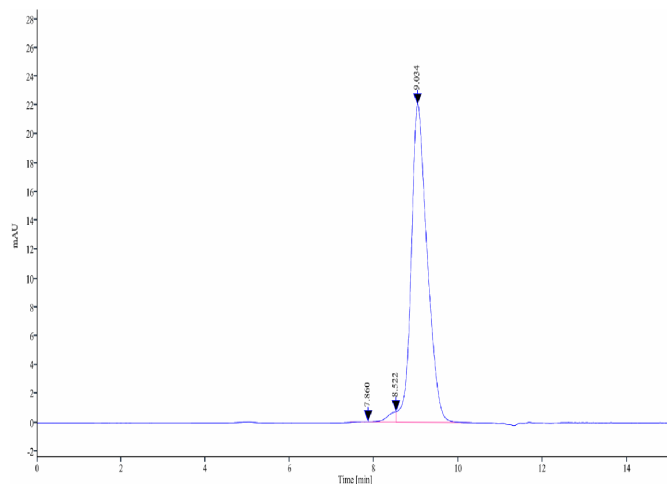
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

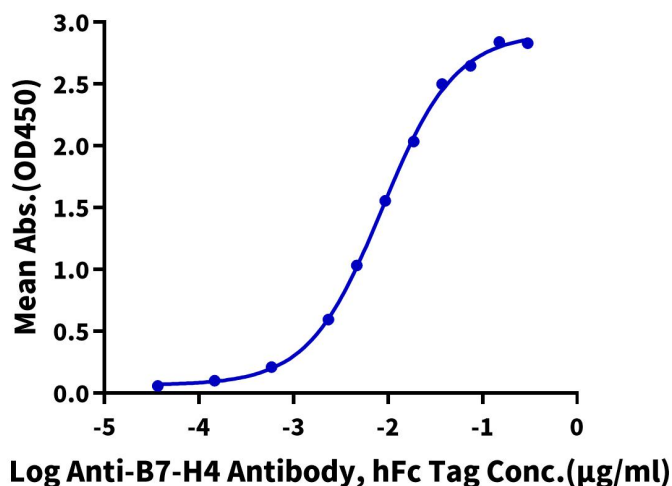


The purity of Human B7-H4 is greater than 95% as determined by SEC-HPLC.

ELISA Data

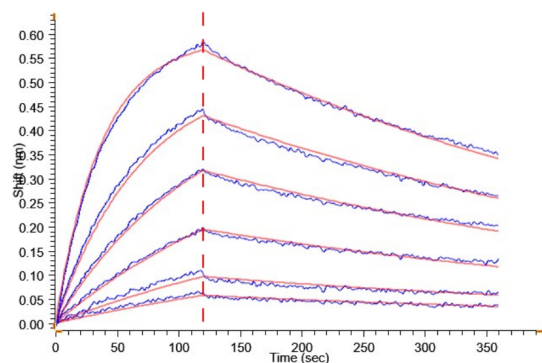
Human B7-H4, His Tag ELISA

0.05µg Human B7-H4, His Tag Per Well



Immobilized Human B7-H4, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-B7-H4 Antibody, hFc Tag with the EC50 of 8.6ng/ml determined by ELISA.

BLI Data



Loaded Anti-B7-H4 Antibody, hFc Tag on ProA-Biosensor can bind Human B7-H4, His Tag with an affinity constant of 8.62 nM as determined in BLI assay .