Human B7-H4 Protein

Cat. No. BH7-HM174

Description

Source	Recombinant Human B7-H4 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Phe29-Ala258.
Accession	Q7Z7D3-1
Molecular Weight	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.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE
	>95% as determined by HPLC

Formulation and Storage

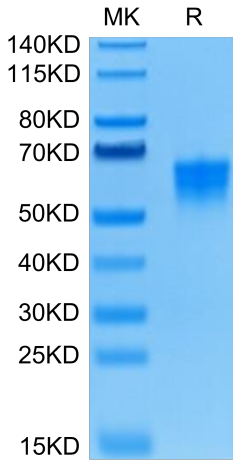
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-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 .

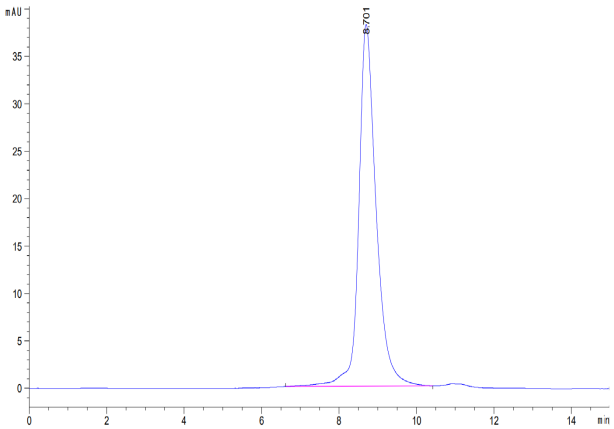
Assay Data

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.

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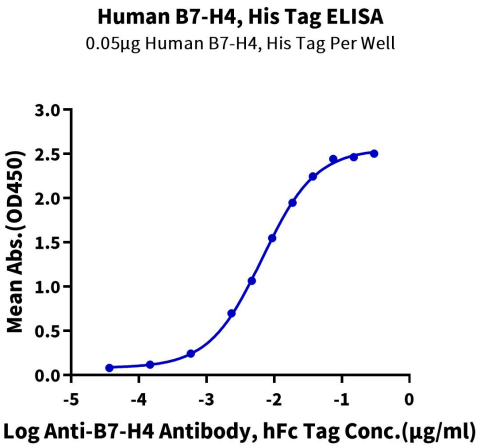
Assay Data

ELISA Data



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 6.7 ng/ml determined by ELISA.