Human B7-2/CD86 Protein

Cat. No. B72-HM486

Description

Source	Recombinant Human B7-2/CD86 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Leu26-Pro247.
Accession	P42081-1
Molecular Weight	The protein has a predicted MW of 28.2 kDa. Due to glycosylation, the protein migrates to 55-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

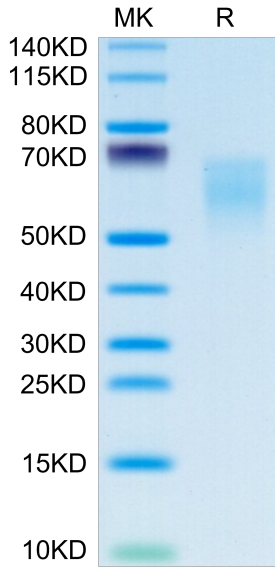
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months 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

B7-1 and B7-2 are homologous costimulatory ligands expressed on the surface of antigen presenting cells (APCs). Binding of these molecules to the T cell costimulatory receptors, CD28 and CTLA-4, is essential for the activation and regulation of T cell immunity. B7-1 and B7-2 do not form hetero-oligomers, underscoring the biological relevance of dimeric and monomeric state of B7-1 and B7-2, respectively.

Assay Data

Bis-Tris PAGE



Human B7-2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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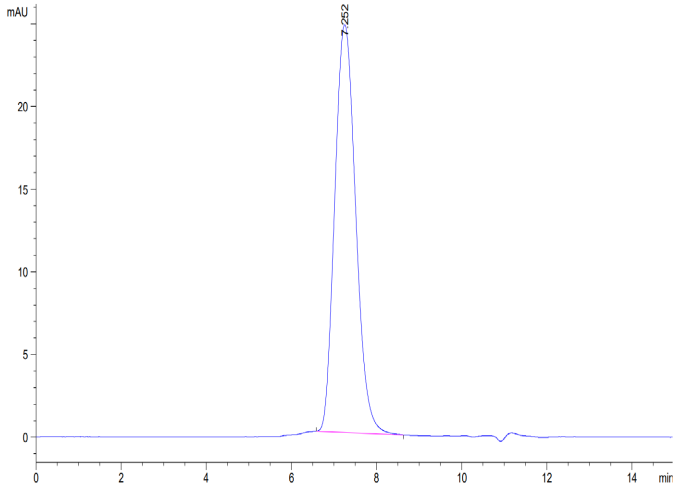
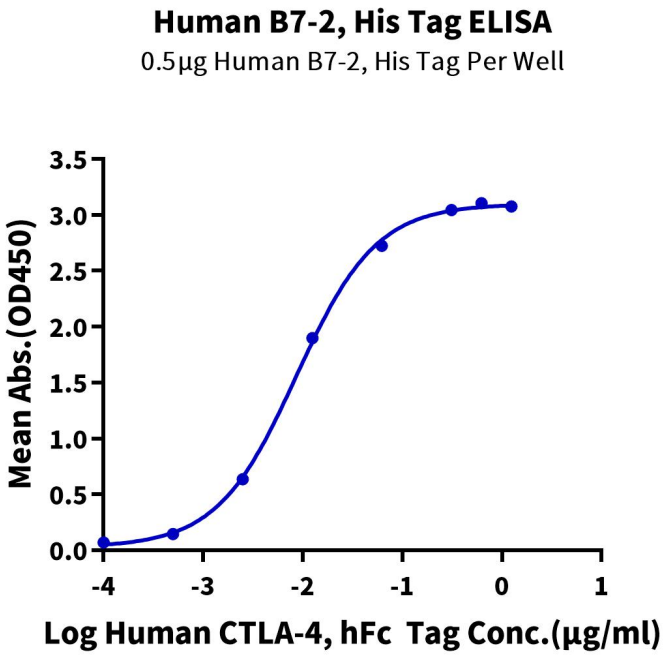
Assay Data



The purity of Human B7-2 is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human B7-2, His Tag at 5μg/ml (100μl/Well) on the plate. Dose response curve for Human CTLA-4, hFc Tag with the EC50 of 8.7ng/ml determined by ELISA.