

Product datasheet for **TP724009**

B7-2 (CD86) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Human B7-2 Protein, hFc Tag
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	B7-2[Leu26-Pro247]+hFc[Glu99-Ala330]
Tag:	C-Human Fc
Predicted MW:	51.5 kDa
Purity:	> 95%
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization
Reconstitution Method:	Reconstitute with deionized water
Preparation:	Affinity purification
Applications:	ELISA, Flow Cyt
Storage:	Store the lyophilized protein at -20°C. After reconstitution, store the protein at -80°C for 12 months. Avoid repeated freezing and thawing.
Stability:	12 months from date of despatch
Locus ID:	942
UniProt ID:	P42081
Summary:	This gene encodes a type I membrane protein that is a member of the immunoglobulin superfamily. This protein is expressed by antigen-presenting cells, and it is the ligand for two proteins at the cell surface of T cells, CD28 antigen and cytotoxic T-lymphocyte-associated protein 4. Binding of this protein with CD28 antigen is a costimulatory signal for activation of the T-cell. Binding of this protein with cytotoxic T-lymphocyte-associated protein 4 negatively regulates T-cell activation and diminishes the immune response. Alternative splicing results in several transcript variants encoding different isoforms.



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Product images:

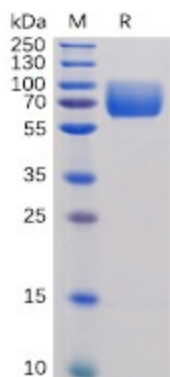


Figure 1. Human B7-2 Protein, hFc Tag on SDS-PAGE under reducing condition.

Human B7-2, hFc Tagged protein ELISA

0.2 µg of Human B7-2, hFc Tagged protein per well

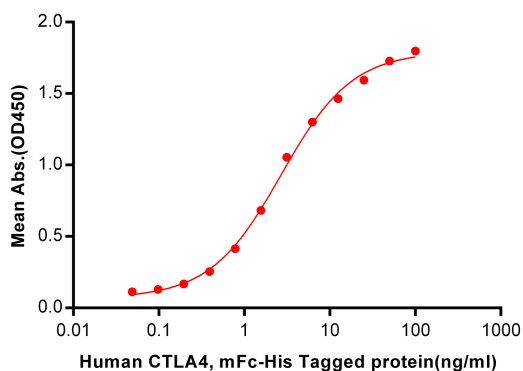


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human B7-2, hFc tagged protein (TP724009) can bind Human CTLA4, mFc-His tagged protein ([TP723940]) in a linear range of 0.048-2.694 ng/ml.

Human B7-2, hFc Tagged protein ELISA

0.2 µg of B7-2, hFc Tagged protein per well

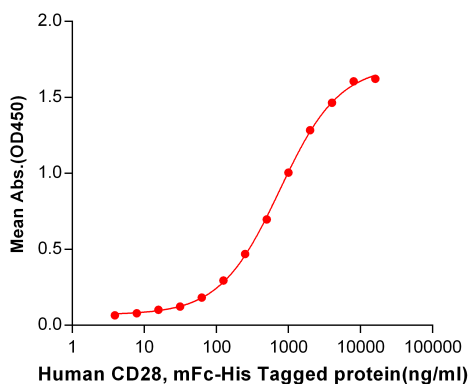


Figure 3. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human CD28, mFc-His tagged protein ([TP723937]) can bind Human B7-2, hFc tagged protein (TP724009) in a linear range of 62.5-4000 ng/ml.

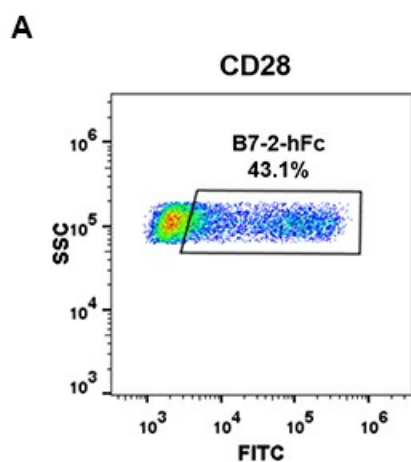


Figure 4. HEK293 cell line transfected with irrelevant protein (B) and human CD28 (A) were surface stained with Human B7-2, hFc tagged protein (TP724009) 1 μ g/ml followed by Alexa 488-conjugated anti-human IgG secondary antibody.