Data Sheet (Cat.No.TMPK-00881)

TargetMol

B7-2/CD86 Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	LAB72;B7-2;B7-2 antigen;FUN-1;CD86 molecule;MGC34413;B70;B72;CD86;BU63;CD28LG2
Protein Construction:	Leu26-Pro247
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P42081-1
Molecular Weight:	28.2 kDa (predicted). Due to glycosylation, the protein migrates to 55-70 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human CTLA-4, hFc Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Human B7-2, His Tag with the EC50 of 3.8μg/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1 EU/μg by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

In general, Lyophilized powders are shipping with blue ice.

Protein 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.

Reference

Bhatia S, et al. B7-1 and B7-2: similar costimulatory ligands with different biochemical, oligomeric and signaling properties. Immunol Lett. 2006 Apr 15;104(1-2):70-5. doi: 10.1016/j.imlet.2005.11.019. Epub 2005 Dec 13. PMID: 16413062.

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