

Recombinant Protein Technical Manual

Recombinant Mouse CD80/B7 Protein (His Tag)(Active) RPES2669

Product Data:

Product SKU: RPES2669	Size: 100µg
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Species: Mouse

Expression host: HEK293 Cells

Uniprot: Q00609

Protein Information

Molecular Mass:	25.1 kDa
AP Molecular Mass:	
Tag:	C-His
Bio-activity:	Measured by its ability to bind recombinant mouse CD28 in a functional ELISA.
Purity:	> 97 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from sterile PBS, pH 7.4
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	Functional ELISA
Synonyms:	T-lymphocyte activation antigen CD80; Activation B7 antigen; B7; CD80;Cd28l;Ly- 53;Ly53;MIC17;TSA1

Sequence: Met 1-Lys 245

Background:

The B-lymphocyte activation antigen B7 (referred to as B7), also known as CD80, is a member of cell surface immunoglobulin superfamily and is expressed on the surface of antigen-presenting cells including activated B cells, macrophages and dendritic cells. As costimulatory ligands, B7 which exists predominantly as dimer and the related protein B7-2, interact with the costimulatory receptors CD28 and cytotoxic T lymphocyte-associated antigen 4 (CTLA-4) expressed on T cells, and thus constitute one of the dominant pathways that regulate T cell activation and tolerance, cytokine production, and the generation of CTL. The B7/CD28/CTLA4 pathway has the ability to both positively and negatively regulate immune responses. CD80 is thus regarded as promising therapeutic targets for autoimmune diseases and various carcinomas.