



Recombinant Protein Technical Manual

Recombinant Human CD80/B7 Protein

RPES1381

Product Data:

Product SKU: RPES1381

Size: 100µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_005182.1

Protein Information:

Molecular Mass: 25.5 kDa

AP Molecular Mass:

Tag:

Bio-activity:

Purity: > 85 % as determined by reducing 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:

Synonyms: CD80; Activation B7 antigen; B7; BB1; CD28LG1; CD28LGB7 antigen; T-lymphocyte activation antigen CD80;B7;B7.1;CD28LG;LAB7

Immunogen Information:

Sequence: Met 1-Asn 242

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.