



Recombinant Protein Technical Manual

Recombinant Rat CD80/B7 Protein (His Tag)

RPES0474

Product Data:

Product SKU: RPES0474

Size: 10µg

Species: Rat

Expression host: Human cells

Uniprot: O35187

Protein Information:

Molecular Mass: 25.7 kDa

AP Molecular Mass: 38 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg as determined by 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 a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: T-lymphocyte activation antigen CD80; Activation B7 antigen; B7; CD80

Immunogen Information:

Sequence: V1a30-Gln248

Background:

Cluster of Differentiation 80, also called B7, is a member of cell surface immunoglobulin superfamily which plays key, yet distinct roles in the activation of T cells. B7/CD80 and B7-2/CD86, together with their receptors CD28 and CTLA4, constitute one of the dominant co-stimulatory pathways that regulate T- and B- cell responses. CD80 is mostly expressed on the surface of antigen-presenting cells including activated B cells, macrophages and dendritic cells. Although both CTLA-4 and CD28 can bind to the same ligands, CTLA-4 binds to B7 and B7-2 with a 2000 fold higher affinity than CD28 and is involved in the down-regulation of the immune response.