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Recombinant Mouse B7-1/CD80 Protein

Catalog No.: RP00690 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	12519	Q00609

Tags
C-Fc

Synonyms
B7;B7-1;B7.1;BB1;CD28LG;CD28LG1;LAB7;CD80;B7;B7-1;B7.1;BB1;CD28LG;CD28LG1;LAB7;CD80

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Background

Cluster of Differentiation 80, also called B7-1, is a member of cell surface immunoglobulin superfamily whichplays key, yet distinct roles in the activation of T cells. It is the ligand for two different proteins on the T cellsurface: CD28 and CTLA-4. Studies have shown that CTLA-4 binds mostly to CD80. The structure presents twoextracellular domains: a membrane distal variable-like domain (IgV) and a membrane proximal Ig constant-likedomain (IgC) along with an intracellular domain. Both IgV and IgC consist of anti-parallel beta sandwichesjoined by a short linker region. CD80 is mostly expressed on the surface of antigen-presenting cells includingactivated B cells, macrophages and dendritic cells.

Basic Information

Description
Recombinant Mouse B7-1/CD80 Protein is produced by Human Cells expression system. The target protein is expressed with sequence (Val38-Lys245) of mouse B7-1/CD80 (Accession #Q00609) fused with an Fc tag at the C-terminus.

Bio-Activity

Storage
Store the lyophilized protein at -20°C to -80 °C for long term.
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.
Avoid repeated freeze/thaw cycles.

Contact

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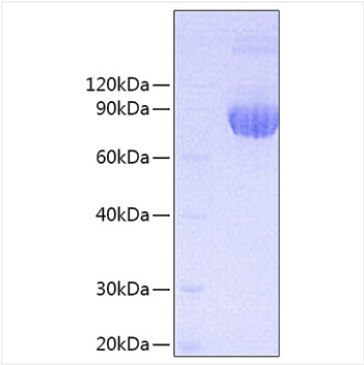
Validation Data



Recombinant Mouse B7-1/CD80 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.