

Recombinant Human B7-1/CD80 Protein

Catalog No.: RP00065 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	941	P33681

Tags

C-His

Synonyms

B7;B7-1;B7.1;BB1;CD28LG;CD28LG1;LAB 7;CD80

Product Information

Source	Purification
HEK293 cells	> 92% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

Contact

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Background

The protein is a membrane receptor that is activated by the binding of CD28 or CTLA-4. The activated protein induces T-cell proliferation and cytokine production. This protein can act as a receptor for adenovirus subgroup B and may play a role in lupus neuropathy.

Basic Information

Description

Recombinant Human B7-1/CD80 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Val35-Asn242) of human B7-1/CD80 (Accession #NP_005182.1) fused with a 6×His tag at the C-terminus.

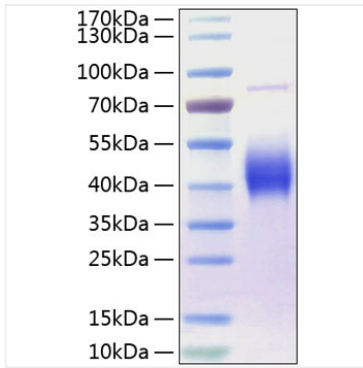
Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant human CD80 at 2 μg/mL (100 μL/well) can bind Recombinant human CTLA-4 with a linear range of 10-50 ng/mL.

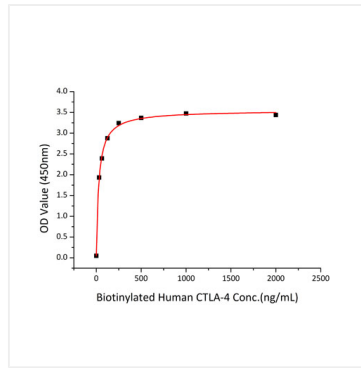
Storage

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.

Validation Data



Recombinant Human B7-1/CD80 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 40-50 kDa.



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