

Recombinant Mouse B7-1/CD80 Protein

Catalog No.: RP01233 Recombinant

Sequence Information

Species Gene ID Swiss Prot Mouse 12519 000609

Tags C-hFc&His

Synonyms

B7;B7-1;B7.1;BB1;CD28LG;CD28LG1;LAB 7;CD80;B7;B7-1;B7.1;BB1;CD28LG;CD28 LG1;LAB7;CD80

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

50.47 kDa 70-90 kDa

Endotoxin

< 0.1 EU/ μ g 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-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 Mouse B7-1/CD80 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val38-Lys245) of mouse B7-1/CD80 (Accession #NP 033985.3) fused with a Fc, 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Mouse CD80 at 500 ng/mL (100 μ L/well) can bind Recombinant Human CTLA-4 with a linear range of 11-44 ng/mL.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

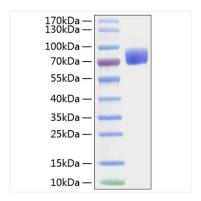
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

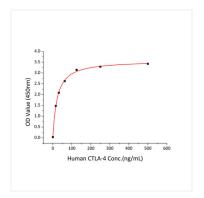
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



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



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