

For Research Use Only

Recombinant Mouse CD86 protein (His Tag)



Catalog Number: Eg0802

Basic Information

Species:
Mouse

Purity:
>95 %, SDS-PAGE

Tag:
His Tag

EC50:
10-40 ng/mL

Technical Specifications

Purity:
>95 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Mouse CD86 protein Val24-Glu245 (Accession# P42082-1) with a His tag at the C-terminus.

GeneID:
12524

Accession:
P42082-1

Predicted Molecular Mass:
26 kDa

SDS-PAGE:
32-48 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Mouse CD86 (His tag) at 1 μ g/mL (100 μ L/well) can bind Mouse CTLA-4 (hFc tag) with a linear range of 10-40 ng/mL.

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

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

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CD86 (also known as B7-2) is a costimulatory molecule belonging to the immunoglobulin (Ig) superfamily. CD86 is primarily expressed on antigen-presenting cells (APCs), including B cells, dendritic cells, and macrophages. CD86 has strong structural similarity with another B7 family molecule, CD80 (B7-1). CD86 and CD80 are the ligands for two proteins at the cell surface of T cells, CD28 antigen and cytotoxic T-lymphocyte antigen 4 (CTLA-4). Binding of CD86 or CD80 with CD28 antigen is a costimulatory signal for T cell activation, proliferation, and cytokine production. Binding of CD86 or CD80 with CTLA-4 negatively regulates T cell activation and diminishes the immune response. However, CD86 and CD80 bind to CTLA-4 with higher affinity than CD28. Defects in CTLA-4-mediated transendocytosis of CD86 are associated with autoimmunity.

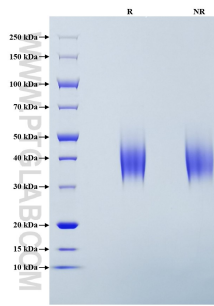
References

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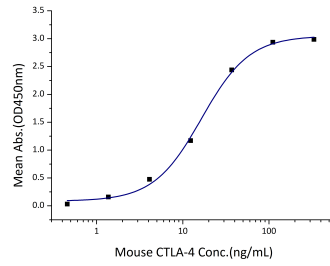
Synonyms

B7-2/CD86, Cd86, B7, B7 2, B7.2

Selected Validation Data



Purity of Recombinant Mouse CD86 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



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For technical support and original validation data for this product please contact

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