

Recombinant Mouse CD80 protein (His Tag)

Catalog Number: Eg0840

Basic Information

Species:
Mouse**Purity:**
>90 %, SDS-PAGE**Tag:**
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<1.0 EU/ µg protein, LAL method

Source:

HEK293-derived Mouse CD80 protein Val38-Asn246 (Accession# Q00609-1) with a His tag at the C-terminus.

GeneID:

12519

Accession:

Q00609-1

Predicted Molecular Mass:

24.9 kDa

SDS-PAGE:**Formulation:**

Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

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

CD80 (also known as B7-1) is a type I membrane protein that is a member of the immunoglobulin superfamily, with an extracellular immunoglobulin constant-like domain and a variable-like domain required for receptor binding. It is expressed on antigen-presenting cells (APCs), including B cells, dendritic cells, monocytes, and macrophages. CD80 is the receptor for the proteins CD28 and CTLA-4 found on the surface of T-cells. It is involved in the costimulatory signal essential for T-lymphocyte activation. T-cell proliferation and cytokine production is induced by the binding of CD28, binding to CTLA-4 has opposite effects and inhibits T-cell activation. CD80 also acts as a cellular attachment receptor for adenovirus subgroup B.

References

1. Peach, R J et al. The Journal of biological chemistry vol. 270,36 (1995): 21181-7.
2. Vasilevko, Vitaly et al. DNA and cell biology vol. 21,3 (2002): 137-49.
3. Short, Joshua J et al. Virus research vol. 122,1-2 (2006): 144-53.

Synonyms

B7 1, B7.1, Cd28l, CD80 antigen, Ly 53

Selected Validation Data

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

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