

For Research Use Only

# Recombinant Mouse CD80 protein (hFc Tag) (HPLC verified)



Catalog Number: Eg0804

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE<br>>90 %, SEC-HPLC

**Tag:**  
hFc Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE<br>>90 %, SEC-HPLC

**Endotoxin Level:**  
<0.1 EU/μg protein, LAL method

**Source:**  
HEK293-derived Mouse CD80 protein Val38-Asn246 (Accession# Q00609-1) with a human IgG1 Fc tag at the C-terminus.

**GeneID:**  
12519

**Accession:**  
Q00609-1

**Predicted Molecular Mass:**  
50.6 kDa

**SDS-PAGE:**  
60-80 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22 μm filtered solution in 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 RJ. et al. (1995). J Biol Chem. 36: 21181-21187.
2. Vasilevko V. et al. (2002). DNA Cell Biol. 3: 137-149.
3. Short JJ. et al. (2006). Virus Res. 122:144-153.

## Synonyms

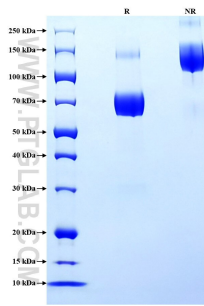
B7 1, B7.1, Cd28l, CD80 antigen, Ly 53

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

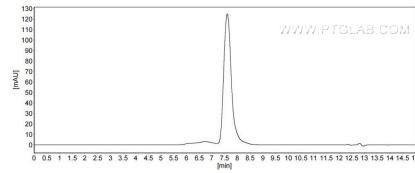
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## Selected Validation Data



Purity of Recombinant Mouse CD80 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.



The purity of Mouse CD80 was greater than 90% as determined by SEC-HPLC.