

For Research Use Only

# Recombinant Rat CD80 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg3841

## Basic Information

**Species:**  
Rat

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

**Tag:**  
rFc Tag

## Technical Specifications

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

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

**Source:**  
HEK293-derived Rat CD80 protein Ile39-Gln248 (Accession# Q62680) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
25408

**Accession:**  
Q62680

**Predicted Molecular Mass:**  
50.2 kDa

**SDS-PAGE:**  
60-75 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, B7.1, or BB1, is a member of the immunoglobulin superfamily with a size of 44-54 kDa and is expressed by a variety of cells, including activated B cells, T cells, macrophages, dendritic cells, and tumor cells. CD80 plays a crucial role in T cell activation.

## References

1. Hathcock KS, et al. J Exp Med. (1994) 180:631-40.
2. Freeman GJ, et al. J Immunol. (1989) 143:2714-22.
3. Li L, et al. Front Immunol. 2024 Nov 7;15:1496992.

## Synonyms

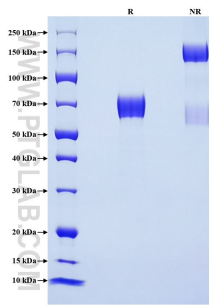
B7 1, B7.1, B7-1, Cd80 molecule

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

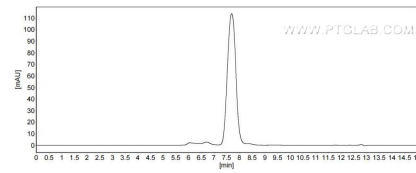
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## Selected Validation Data



Purity of Recombinant Rat 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 Rat CD80 was greater than 90% as determined by SEC-HPLC.