For Research Use Only

Recombinant Human CD80 protein (Myc Tag, His Tag)

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Catalog Number: Eg0060

Basic Information

Species: Human

Purity: >90 %, SDS-PAGE

Tag: Myc Tag, His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

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

Source:
HEK293-derived Human CD80 protein Val35-Asn242 (Accession# P33681-1) with a Myc tag and a His tag at the C-terminus.

GeneID:
941

Accession:
P33681-1

Predicted Molecular Mass:
28.9 kDa

SDS-PAGE:
40-70 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

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℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ 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.

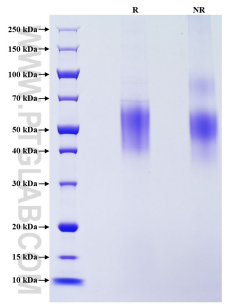
References

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

CD80, Activation B7 1 antigen, Activation B7-1 antigen, B7, B7 1

Selected Validation Data



Purity of Recombinant Human 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.