

For Research Use Only

Recombinant Human CD27 protein (hFc Tag, Myc Tag, His Tag)



Catalog Number: Eg0037

Basic Information

Species:
Human

EC50:
20-80 ng/mL

Purity:
>90 %, SDS-PAGE

Tag:
hFc 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 CD27 protein Ala20-Arg191 (Accession# P26842) with a human IgG1 Fc tag, a Myc tag and a His tag at the C-terminus.

GeneID:
939

Accession:
P26842

Predicted Molecular Mass:
47.7 kDa

SDS-PAGE:
58-70 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

Immobilized Human CD70 (His tag) at 2 μ g/mL (100 μ L/well) can bind Human CD27 (hFc tag, Myc tag, His tag) with a linear range of 20-80 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

CD27 (also known as TNFRSF7) is a type I glycoprotein expressed on some B cells and the majority of T cells, and is a member of the tumor necrosis factor (TNF) receptor family. CD27 is required for generation and long-term maintenance of T cell immunity. It is a receptor for CD70 (CD27L). Ligation of CD27 by CD70 induces strong ubiquitination of TRAF and the activation of both canonical and non-canonical NF- κ B pathways, as well as the JNK pathway. CD27 may also play a role in apoptosis through association with SIVA1.

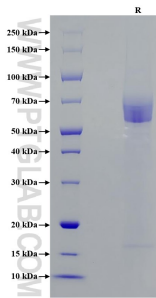
References

1. K V Prasad, et al. (1997) Proc Natl Acad Sci U S A. 94(12):6346-51.
2. J Hendriks, et al. (2000) Nat Immunol. 1(5):433-40.
3. Martijn A Nolte, et al. (2009) Immunol Rev. 229(1):216-31.

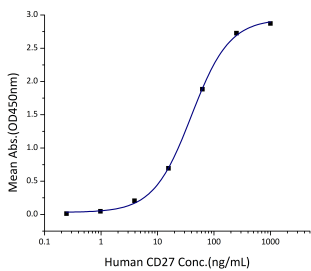
Synonyms

CD27, CD27 antigen, CD27 molecule, CD27L receptor, S152

Selected Validation Data



Purity of Recombinant Human CD27 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.



Immobilized Human CD70 (His tag) at 2 μ g/mL (100 μ L/well) can bind Human CD27 (hFc tag, Myc tag, His tag) with a linear range of 20-80 ng/mL.