

For Research Use Only

Recombinant Human CD70 protein (hFc Tag)



Catalog Number: Eg0355

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
hFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Human CD70 protein Gln39-Pro193 (Accession# P32970-1) with a human IgG1 Fc tag at the N-terminus.

GeneID:

970

Accession:

P32970-1

Predicted Molecular Mass:

43.6 kDa

SDS-PAGE:

50-60 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°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

CD70, also known as tumor necrosis factor ligand superfamily member 7 (TNFSF7) or CD27 ligand (CD27L), is a transmembrane protein that plays a significant role in the immune system. It is the unique ligand for CD27, a member of the tumor necrosis factor receptor (TNFR) family, and is transiently upregulated upon stimulation of immune cells. CD70 is expressed on lymphocytes and dendritic cells, and its expression can be regulated by activation signals received via toll-like receptors (TLRs), CD40, and the antigen receptor MHC II. It provides complex and not completely understood signaling for B cell development. CD70 is also expressed on various solid tumors and hematolymphoid malignancies, where it may contribute to a poor prognosis.

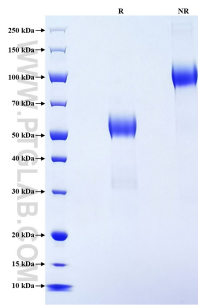
References

1. Tal Flieswasser. et al.(2022) J Exp Clin Cancer Res. 2022 Jan 6;41(1):12.
2. J Jacobs. et al.(2015) Pharmacol Ther.155:1-10.
3. Koen van de Ven. et al. (2015) Immunotherapy. 2015;7(6):655-67.

Synonyms

CD70, CD27 L, CD27 ligand, CD27L, CD27-L

Selected Validation Data



Purity of Recombinant Human CD70 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.

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

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