

Recombinant Human CD69 protein (rFc Tag) (HPLC verified)

Catalog Number: Eg1791

Basic Information

Species:
Human**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 Human CD69 protein Ser62-Lys199 (Accession# Q07108) with a rabbit IgG Fc tag at the C-terminus.**GeneID:**
969**Accession:**
Q07108**Predicted Molecular Mass:**
42.3 kDa**SDS-PAGE:**
40-50 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

CD69, also known as activation inducer molecule (AIM) or early activation antigen (EA1), is a cell surface glycoprotein expressed shortly after activation on T lymphocytes and other cells of haematopoietic origin, including natural killer cells. It is a disulfide-linked homodimer composed of two chains belonging to the type II integral protein with a C-type lectin domain. CD69 is a classical early marker of lymphocyte activation, rapidly appearing on the surface of immune cells such as T-lymphocytes, NK cells, and platelets upon activation by various stimuli like antigen recognition or cytokine signaling (PMID: 28475283; 32291138). CD69 is involved in lymphocyte proliferation and functions as a signal-transmitting receptor in lymphocytes, natural killer cells, and platelets.

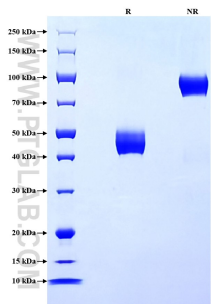
References

1. Cibrián D. et al. (2017). Eur J Immunol. 47(6):946-953.
2. Gorabi AM. et al. (2020). J Autoimmun. 114:102548.

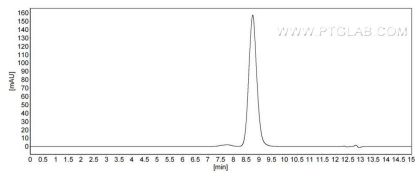
Synonyms

Activation inducer molecule, AIM, BL AC/P26, BL-AC/P26, CD69 molecule

Selected Validation Data



Purity of Recombinant Human CD69 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 Human CD69 was greater than 90% as determined by SEC-HPLC.