

Recombinant Human CD89 protein (rFc Tag) (HPLC verified)

Catalog Number: Eg1734

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/ μ g protein, LAL method**Source:**
HEK293-derived Human CD89 protein Gln22-Asn227 (Accession# P24071-1) with a rabbit IgG Fc tag at the C-terminus.**GeneID:**
2204**Accession:**
P24071-1**Predicted Molecular Mass:**
49.8 kDa**SDS-PAGE:**
55-85 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

Fc α RI (CD89) is a member of the Fc receptor immunoglobulin superfamily, constitutively expressed on cells of the myeloid lineage like neutrophils, eosinophils, monocytes macrophages, and platelets. CD89 expression and activation are increased in human blood phagocytes following bacterial infection, together with increased expression and association of FcR γ with CD89. CD89 binds both subclasses of IgA (IgA1 and IgA2) with moderate affinity, but also binds other molecules such as TfR1, C-reactive protein and bacterial ligands. CD89 represents an effective target molecule for immunotherapy mediated by bispecific antibodies.

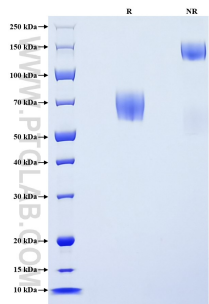
References

1. Cambier A, et al. (2022). Kidney Int. Feb;101(2):274-287.
2. de Tymowski C, et al. (2019). Cell Rep. Apr 16;;27(3):762-775.e5.
3. Lua WH, et al. (2017). Cell Cycle. Mar 4;16(5):457-467.
4. van Delft MAM, et al. (2023). Front Immunol. Apr 4;14:1118539.

Synonyms

FCAR, IgA Fc receptor

Selected Validation Data



Purity of Recombinant Human CD89 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.

