

Recombinant Human FCAR/CD89 Protein

Catalog No.: RP00113 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 2204 P24071

Tags C-hFc&His

Synonyms

FCAR;CD89;CTB-61M7.2;FcalphaRI

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

50.27 kDa 65-75 kDa

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

This protein is a member of the immunoglobulin gene superfamily and receptor for the Fc region of IgA. The receptor is a transmembrane glycoprotein present on the surface of myeloid lineage cells such as neutrophils, monocytes, macrophages, and eosinophils, where it mediates immunologic responses to pathogens. It interacts with IgA-opsonized targets and triggers several immunologic defense processes, including phagocytosis, antibody-dependent cell-mediated cytotoxicity, and stimulation of the release of inflammatory mediators. Multiple alternatively spliced transcript variants encoding different isoforms have been described for this gene.

Basic Information

Description

Recombinant Human FCAR/CD89 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gln22-Asn227) of human CD89/FCAR (Accession #NP_001991.1) fused with an Fc, 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human IGHA1 (Catalog: RPT0023) at 5 μ g/mL (100 μ L/well) can bind Human CD89/FCAR (Catalog: RP00113) with a linear range of 0.01-7.4 ng/mL.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

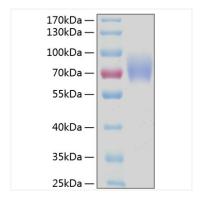
Avoid repeated freeze/thaw cycles.

Operational Notes

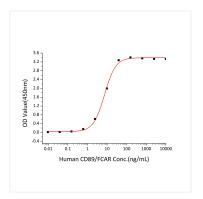
For your safety and health, please wear a lab coat and disposable gloves for handling.

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Validation Data



Recombinant Human FCAR/CD89 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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