Recombinant FCAR protein (His tag)

Catalog Number	546863
Synonyms	IgA Fc receptor; CD antigen CD89
Species	Human
Expression System	E. coli
Accession	P24071
Molecular Weight	Predictes a molecular mass of 25.14 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	22-227
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 22-227 aa (P24071) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Immunoglobulin alpha Fc receptor (FCAR/CD89) fragment (aa 22-227) is a high-purity protein designed for studying IgA Fc receptor interactions. This fragment encompasses the two critical Ig-like C2-type domains, making it an ideal tool for investigating domain-specific functions in immune regulation and antibody binding assays. The full-length Immunoglobulin alpha Fc receptor (FCAR/CD89) is a cell membrane protein that binds to the Fc region of immunoglobulin A (IgA). It mediates several immune functions, including cytokine production, playing a key role in mucosal immunity and inflammatory responses. Multiple isoforms exist, with some being membrane-anchored (e.g., Isoforms A.1, A.2, A.3) and others secreted (e.g., Isoform B, Isoform B-delta-S2), highlighting its diverse regulatory roles in immune signaling pathways.