Recombinant FCAMR protein (His tag)

Catalog Number	547833
Synonyms	Fc alpha/mu receptor; CD antigen CD351
Species	Human
Expression System	E. coli
Accession	Q8WWV6
Molecular Weight	Predictes a molecular mass of 14.12 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	63-173
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 63-173 aa (Q8WWV6) 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	This recombinant protein is a fragment of the High Affinity Immunoglobulin Alpha and Immunoglobulin Mu Fc Receptor (Fc alpha/mu receptor, CD351), derived from the human FCAMR gene. The product encompasses amino acids 63-173, engineered for stability and solubility, making it ideal for structural studies and biochemical assays targeting IgA and IgM Fc interactions. The full-length Fc alpha/mu receptor functions as a receptor for the Fc fragments of IgA and IgM, binding them with high affinity and mediating their endocytosis. It plays a role in immune responses to microbes by facilitating the uptake of IgA and IgM antibodies. The protein is localized to the cell membrane as a single-pass type I membrane protein, underscoring its involvement in immune surveillance and pathogen clearance mechanisms.