Recombinant FA20A protein (His tag)

Catalog Number	545724
Species	Human
Expression System	E. coli
Accession	Q96MK3
Molecular Weight	Predictes a molecular mass of 53.52 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 54 kDa band.

Product Information

Sequence Region	89-541
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 89-541 aa (Q96MK3) 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 Pseudokinase FAM20A (Fragment 89-541) is a high-purity protein fragment designed for structural and biochemical studies. This 453-amino acid fragment represents a stable and soluble unit of FAM20A, optimized for research on its role as an allosteric activator in biomineralization processes. FAM20A is a pseudokinase that functions as an allosteric activator of the Golgi serine/threonine protein kinase FAM20C, playing a critical role in tooth enamel biomineralization. It forms a complex with FAM20C to enhance phosphorylation of matrix proteins, which guide mineral deposition during enamel formation. FAM20A is localized to the Golgi apparatus, endoplasmic reticulum, and is also secreted, underscoring its involvement in secretory pathway-dependent mineralization mechanisms.