Recombinant FILA2 protein (His tag)

Catalog Number	540450
Synonyms	FLG-2; Intermediate filament-associated and psoriasis-susceptibility protein; Ifapsoriasin
Species	Human
Expression System	E. coli
Accession	Q5D862
Molecular Weight	Predictes a molecular mass of 12.38 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	1-92
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 1-92 aa (Q5D862) 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 Filaggrin-2 (FLG-2) Fragment (1-92) is a high-purity protein derived from human FLG2, encompassing the EF-hand 1 and EF-hand 2 domains. This fragment serves as an essential tool for investigating calcium-binding interactions and domain-specific functions in epidermal integrity and cell adhesion studies. Filaggrin-2 (FLG-2), also known as Ifapsoriasin, is critical for normal cell-cell adhesion in the cornified layers of the epidermis and contributes to the mechanical strength and integrity of the stratum corneum. It localizes to the cytoplasm and cytoplasmic granules, such as keratohyalin granules in the stratum granulosum, and colocalizes with calpain-1 in granular keratinocytes and lower corneocytes. These features underscore its role in skin barrier function and its association with psoriasis susceptibility, making it a key target for dermatological and cell adhesion research.