Recombinant D131A protein (His tag)

Catalog Number	551118
Synonyms	Beta-defensin 31; DEFB-31; Defensin, beta 131
Species	Human
Expression System	E. coli
Accession	P59861
Molecular Weight	Predictes a molecular mass of 9.85 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	1-70
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-70 aa (P59861) 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 product is a recombinant fragment of Beta-defensin 131A (DEFB-31), a human protein with demonstrated antibacterial activity and immunomodulatory functions. The fragment, spanning amino acids 1-70, has been computationally optimized for stability and solubility, making it ideal for structural studies and biochemical assays. Beta-defensin 131A (DEFB-31) is a secreted protein in Homo sapiens that plays a role in innate immunity. It exhibits antibacterial activity and, upon stimulation with lipoteichoic acid, promotes the production and secretion of cytokines and chemokines, contributing to immune responses. The protein is naturally secreted, indicating its extracellular function in host defense mechanisms.