Recombinant D104A protein (His tag)

Catalog Number	540850
Synonyms	Beta-defensin 4; BD-4; DEFB-4; hBD-4; Defensin, beta 104
Species	Human
Expression System	E. coli
Accession	Q8WTQ1
Molecular Weight	Predictes a molecular mass of 10.18 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	1-72
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-72 aa (Q8WTQ1) 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 Beta-defensin 104 (Beta-defensin 4), a 72-amino acid fragment (residues 1-72) of the human antimicrobial protein, is designed for high solubility and stability, ideal for structural studies and functional assays in innate immunity research. Beta-defensin 104, also known as DEFB-4 or hBD-4, is a secreted protein in humans with demonstrated antimicrobial activity. It exhibits synergistic effects with lysozyme and DEFB103, enhancing its role in host defense mechanisms against pathogens. As a secreted factor, it functions extracellularly, contributing to the innate immune response by targeting microbial invaders.