# Recombinant BNC2 protein (His tag)

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| **Catalog Number** | 540558 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q6ZN30 |
| **Molecular Weight** | Predictes a molecular mass of 21.63 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band. |

## Product Information

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| **Sequence Region** | 112-286 |
| **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 112-286 aa (Q6ZN30) were fused with 6His tag. |

## Storage & Handling

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| **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.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant Human Zinc finger protein basonuclin-2 (BNC2) fragment (amino acids 112-286) is a stable and soluble protein unit designed for structural and biochemical studies. This fragment, derived from a transcription factor critical for skin keratinocyte regulation and urinary-tract development, offers researchers a reliable tool for investigating molecular mechanisms in cellular differentiation and tissue formation.<br>Zinc finger protein basonuclin-2, encoded by the BNC2 gene in Homo sapiens, functions as a probable transcription factor with specificity for skin keratinocytes. It contributes to the differentiation processes of spermatozoa and oocytes and plays an important role in early urinary-tract development. The protein is localized to the nucleus, where it likely regulates gene expression involved in these biological pathways. This recombinant fragment represents a computationally optimized region for enhanced experimental utility, supporting research into basonuclin-2's functional roles. |