Recombinant BEND5 protein (His tag)

Catalog Number	542984
Species	Human
Expression System	E. coli
Accession	Q7L4P6
Molecular Weight	Predictes a molecular mass of 16.77 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	291-421
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 291-421 aa (Q7L4P6) 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 BEN Domain-Containing Protein 5 (BEND5) Fragment (291-421) – a high-purity protein fragment designed for studying the transcriptional repressor activity of the BEN domain. This 131-amino acid fragment fully encompasses the functional BEN domain (302-408), providing an ideal tool for domain-specific functional assays and mechanistic research. The full-length BEN domain-containing protein 5 (BEND5), encoded by the gene BEND5 in Homo sapiens, functions as a transcriptional repressor, as evidenced by research (PubMed:23468431). This role highlights its importance in regulating gene expression, potentially influencing cellular processes where transcriptional control is critical. The provided fragment isolates the BEN domain, enabling focused investigation into how this domain mediates BEND5's repressor function without interference from other protein regions.