Recombinant ZN516 protein (His tag)

Catalog Number	540904
Species	Human
Expression System	E. coli
Accession	Q92618
Molecular Weight	Predictes a molecular mass of 16.13 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	173-298
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 173-298 aa (Q92618) 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 Zinc finger protein 516 (ZNF516) fragment (residues 173-298) is a high-quality, stable protein product designed for structural and biochemical studies. This fragment, derived from human ZNF516, represents a soluble and well-folded region ideal for investigating the protein's role in transcriptional regulation and brown adipose tissue differentiation. Zinc finger protein 516 (ZNF516) is a transcriptional regulator that binds to promoter regions to activate genes involved in brown adipose tissue (BAT) differentiation. It specifically targets the UCP1 gene promoter to enhance thermogenesis. Additionally, ZNF516 may participate in the cellular response to replication stress. The protein is localized to the nucleus, where it exerts its regulatory functions. The provided fragment (173-298) was selected computationally for its stability and solubility, enabling detailed mechanistic and structural analyses of this important regulatory protein.