Recombinant ZNF8 protein (His tag)

Catalog Number	548929
Synonyms	Zinc finger protein HF.18
Species	Human
Expression System	E. coli
Accession	P17098
Molecular Weight	Predictes a molecular mass of 20.67 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	256-421
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 256-421 aa (P17098) 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 Zinc Finger Protein 8 (ZNF8) Fragment (aa 256-421) – a highly stable and soluble protein fragment designed for structural and biochemical studies. This fragment represents a key region of ZNF8, a transcriptional repressor involved in modulating BMP and TGF-beta signaling pathways, offering researchers a reliable tool for investigating protein function and interactions. Zinc Finger Protein 8 (ZNF8), encoded by the gene ZNF8 in Homo sapiens, functions as a transcriptional repressor. It plays a significant role in modulating BMP and TGF-beta signal transduction pathways through its interaction with SMAD proteins, which are critical regulators of cellular processes such as growth, differentiation, and apoptosis. The protein is localized in the nucleus, where it exerts its regulatory effects on gene expression. The provided fragment (amino acids 256-421) was selected computationally to ensure stability and solubility, facilitating its use in detailed structural and functional analyses without the complexities of the full-length protein.