Recombinant ARCH protein (His tag)

Catalog Number	543091
Synonyms	Protein ZBTB8OS; Zinc finger and BTB domain-containing opposite strand protein 8
Species	Human
Expression System	E. coli
Accession	Q8IWT0
Molecular Weight	Predictes a molecular mass of 21.01 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	2-167
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 2-167 aa (Q8IWT0) 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 Protein archease (ZBTB8OS) Fragment (2-167) is a high-quality, soluble protein designed for structural and biochemical studies. This fragment represents a stable domain of the full-length protein, ideal for investigating its role in tRNA ligation and enzymatic turnover. Protein archease (ZBTB8OS) is a component of the tRNA-splicing ligase complex in humans, where it facilitates the enzymatic turnover of the catalytic subunit RTCB. Working in conjunction with DDX1, it enables the guanylylation of RTCB, a critical intermediate step in the tRNA ligation process, as supported by evidence from PubMed:24870230. This function underscores its importance in RNA processing and cellular metabolism.