Recombinant TIGD4 protein (His tag)

Catalog Number	550443
Species	Human
Expression System	E. coli
Accession	Q8IY51
Molecular Weight	Predictes a molecular mass of 45.20 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band.

Product Information

Sequence Region	1-381
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 1-381 aa (Q8IY51) 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 Tigger transposable element-derived protein 4 (TIGD4) fragment (residues 1-381), encompassing the complete HTH psq-type, HTH CENPB-type, and DDE-1 functional domains. This high-quality human-derived protein serves as an essential tool for investigating domain-specific functions in transposable element regulation and DNA binding activities. Tigger transposable element-derived protein 4 (TIGD4) is a human nuclear protein that belongs to the transposable element-derived protein family. As indicated by its subcellular localization in the nucleus, TIGD4 likely functions in DNA-related processes, potentially involving transposable element regulation and genomic stability. The presence of multiple DNA-binding domains (HTH psq-type, HTH CENPB-type) and the DDE-1 domain suggests roles in sequence-specific DNA recognition and potentially in DNA transposition or recombination mechanisms. The recombinant fragment provided offers researchers the opportunity to study these specific domain functions in isolation, enabling detailed mechanistic investigations into TIGD4's biological activities.