Recombinant TENS4 protein (His tag)

Catalog Number	547713
Synonyms	C-terminal tensin-like protein
Species	Human
Expression System	E. coli
Accession	Q8IZW8
Molecular Weight	Predictes a molecular mass of 32.72 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 33 kDa band.

Product Information

Sequence Region	437-715
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 437-715 aa (Q8IZW8) 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	Introducing the recombinant human Tensin-4 (TNS4) C-terminal fragment (residues 437-715), a high-purity protein designed for investigating SH2 and PTB domain-mediated functions. This fragment serves as an essential tool for studying EGF-induced cell migration, EGFR and MET receptor stabilization, and focal adhesion dynamics in cancer and cell biology research. Tensin-4 (TNS4) is a human focal adhesion protein that plays critical roles in cell migration and receptor signaling. It promotes EGF-induced cell migration by displacing tensin TNS3 from integrin ITGB1, leading to focal adhesion disassembly and actin stress fiber reorganization. TNS4 also enhances cell survival and proliferation by suppressing ligand-induced degradation of EGFR and MET receptors through reduced ubiquitination and inhibition of endocytic trafficking. Located primarily at cell junctions in focal adhesions and within the cytoskeleton, TNS4 functions as a key regulator of cellular motility and receptor stability pathways, with implications in cancer progression and metastasis.