Recombinant TACC3 protein (His tag)

Catalog Number	548615
Synonyms	ERIC-1
Species	Human
Expression System	E. coli
Accession	Q9Y6A5
Molecular Weight	Predictes a molecular mass of 25.16 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 30 kDa band.

Product Information

Sequence Region	639-838
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 639-838 aa (Q9Y6A5) 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 Transforming acidic coiled-coil-containing protein 3 (TACC3/ERIC-1) Fragment (639-838) is a 200-amino acid protein fragment designed for structural and biochemical studies. This fragment, derived from the human TACC3 gene, represents a stable and soluble unit ideal for investigating microtubule dynamics, centrosome function, and mitotic spindle regulation. Transforming acidic coiled-coil-containing protein 3 (TACC3) is a critical regulator of microtubule organization and centrosome-mediated processes in human cells. It functions by stabilizing kinetochore fibers of the mitotic spindle as part of the TACC3/ch-TOG/clathrin complex, maintaining spindle tension during cell division. TACC3 localizes to the cytoplasm, centrosome, and spindle apparatus, where it contributes to nuclear-centrosome coupling and interkinetic nuclear migration in neural progenitors. Its dysregulation has been implicated in cancer pathogenesis, highlighting its importance in cell growth and differentiation control. The provided fragment (residues 639-838) was selected for optimal stability and solubility to facilitate experimental analysis of TACC3's structural and functional properties.