Recombinant ABRA protein (His tag)

Catalog Number	551202
Synonyms	Striated muscle activator of Rho-dependent signaling; STARS
Species	Human
Expression System	E. coli
Accession	Q8N0Z2
Molecular Weight	Predictes a molecular mass of 18.25 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	241-381
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 241-381 aa (Q8N0Z2) 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 Actin-binding Rho-activating protein (STARS) fragment (residues 241-381) from Homo sapiens, designed for structural and biochemical studies. This stable and soluble fragment enables researchers to explore the mechanisms of Rho-actin signaling and SRF-dependent transcription activation. The full-length Actin-binding Rho-activating protein (STARS) functions as an activator of serum response factor (SRF)-dependent transcription, likely by promoting nuclear translocation of MKL1 or MKL2 through Rho-actin signaling pathways. It localizes to the cytoplasm, myofibrils, and sarcomeres, with specific enrichment in the I-band of the sarcomere and lesser presence between Z-lines, underscoring its role in striated muscle signaling and cytoskeletal regulation.