Recombinant TBCD8 protein (His tag)

Catalog Number	549712
Synonyms	AD 3; Vascular Rab-GAP/TBC-containing protein
Species	Human
Expression System	E. coli
Accession	O95759
Molecular Weight	Predictes a molecular mass of 47.63 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 50 kDa band.

Product Information

Sequence Region	1-397
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-397 aa (O95759) 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 TBC1 domain family member 8 (AD 3) fragment (amino acids 1-397) from Homo sapiens, encompassing the GRAM 1 and GRAM 2 domains. This high-purity protein is an essential tool for investigating GTPase-activating functions and domain-specific mechanisms in cellular signaling pathways. TBC1D8, also known as Vascular Rab-GAP/TBC-containing protein, is implicated as a GTPase-activating protein (GAP) for Rab family proteins, which are key regulators of intracellular membrane trafficking. The full-length protein modulates Rab GTPase activity, influencing vesicle formation, transport, and fusion processes critical for maintaining cellular homeostasis. The recombinant fragment (1-397) retains the structurally and functionally significant GRAM domains, enabling focused studies on their contributions to Rab GAP activity and related molecular interactions.