Recombinant TBC3I protein (His tag)

Catalog Number	551297
Species	Human
Expression System	E. coli
Accession	A0A087WXS9
Molecular Weight	Predictes a molecular mass of 27.58 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	1-219
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-219 aa (A0A087WXS9) 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 TBC1D3I (TBC1 domain family member 3I) Fragment (aa 1-219) – a highly soluble and stable protein fragment designed for structural and biochemical studies of this key RAB5 GTPase activating protein. TBC1D3I is a human protein that functions as a GTPase activating protein (GAP) specifically for RAB5, a critical regulator of early endosome trafficking and signaling. It does not exhibit activity towards RAB4 or RAB11. The full-length protein is localized to the cell membrane via a lipid anchor and is associated with lipid rafts, specialized membrane microdomains involved in cellular signaling and trafficking. This recombinant fragment (amino acids 1-219) represents a computationally optimized, stable, and soluble unit of the protein, ideal for elucidating its structure-function relationships and biochemical mechanisms.