Recombinant MEAK7 protein (His tag)

Catalog Number	545218
Synonyms	MEAK7; MTOR associated protein, eak-7 homolog; TBC/LysM-associated domain-containing protein 1; TLD domain-containing protein 1
Species	Human
Expression System	E. coli
Accession	Q6P9B6
Molecular Weight	Predictes a molecular mass of 52.52 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 54 kDa band.

Product Information

Sequence Region	2-456
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 2-456 aa (Q6P9B6) 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 MEAK7 (aa 2-456) is a high-purity protein fragment encompassing the full TLDc domain, designed for investigating the role of MEAK7 in mTOR signaling pathways. This product serves as an essential tool for studying cell proliferation, migration, and lysosomal mTOR activation in a controlled experimental setting. MEAK7, or MTOR-associated protein MEAK7, is a key regulator in human cells that activates an alternative mTOR signaling pathway by promoting RPS6KB2 activation and repressing EIF4EBP1, thereby influencing cell proliferation and migration. It localizes to the membrane, cytoplasm, and lysosome, where it recruits MTOR to the lysosomal surface, a critical step for MTOR signaling integrity. The full-length protein's function in lysosomal recruitment underscores its importance in cellular growth and metabolic processes, making it a significant target for cancer and cell biology research.