Recombinant REP15 protein (His tag)

Catalog Number	545187
Species	Human
Expression System	E. coli
Accession	Q6BDI9
Molecular Weight	Predictes a molecular mass of 28.10 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	2-236
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 2-236 aa (Q6BDI9) 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 Rab15 effector protein (REP15) fragment (aa 2-236), derived from Homo sapiens, is a high-quality tool for studying Rab GTPase signaling pathways. This stable and soluble fragment is ideal for structural biology, biochemical assays, and functional investigations into endocytic recycling and cellular trafficking mechanisms. The full-length Rab15 effector protein (REP15) is an important regulatory protein that interacts with active, GTP-bound Rab GTPases, including RAB15, RAB3A-D, and RAB34. It plays a critical role in controlling downstream signaling processes such as cell proliferation and cell migration. Additionally, REP15 is involved in the regulation of transferrin receptor recycling from the endocytic recycling compartment. The protein is localized to the early endosome membrane, where it colocalizes with RAB11 and RAB15, highlighting its significance in intracellular trafficking and membrane dynamics.