Recombinant DOP1A protein (His tag)

Catalog Number	550901
Species	Human
Expression System	E. coli
Accession	Q5JWR5
Molecular Weight	Predictes a molecular mass of 49.51 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 50 kDa band.

Product Information

Sequence Region	1576-1999
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1576-1999 aa (Q5JWR5) 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 Protein DOP1A Fragment (aa 1576-1999) is a high-quality, stable protein fragment designed for structural and biochemical research. This 424-amino acid fragment represents a computationally optimized soluble unit of the DOP1A protein, which plays a crucial role in intracellular protein trafficking between the Golgi apparatus and early endosomes. The full-length Human DOP1A protein (UniProt ID: Q5JWR5) functions in protein traffic regulation between late Golgi compartments and early endosomes, representing a key component in intracellular membrane trafficking pathways. This protein localizes to the Golgi apparatus membrane as a peripheral membrane protein, suggesting its involvement in vesicular transport and organelle communication. The selected fragment (aa 1576-1999) was strategically chosen based on structural predictions to provide a stable, soluble protein unit that maintains structural integrity while being suitable for experimental applications, enabling researchers to study DOP1A's functional properties without the complications associated with full-length membrane-associated proteins.