Recombinant TOIP2 protein (His tag)

Catalog Number	538548
Synonyms	Lumenal domain-like LAP1
Species	Human
Expression System	E. coli
Accession	Q8NFQ8
Molecular Weight	Predictes a molecular mass of 27.95 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	236-470
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 236-470 aa (Q8NFQ8) 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	Introducing the recombinant Torsin-1A-interacting protein 2 (Lumenal domain-like LAP1) fragment (residues 236-470), a high-quality protein derived from Homo sapiens. This 235-amino acid fragment is engineered for stability and solubility, making it an ideal tool for structural studies, biochemical assays, and functional investigations into endoplasmic reticulum integrity and TOR1A regulation. The full-length Torsin-1A-interacting protein 2 (TOR1AIP2) is a single-pass membrane protein localized to the endoplasmic reticulum and nuclear envelope membranes in human cells. It plays a critical role in maintaining endoplasmic reticulum integrity and regulates the distribution of TOR1A between these compartments. Additionally, TOR1AIP2 induces the ATPase activity of TOR1A, TOR1B, and TOR3A, highlighting its importance in cellular processes related to protein folding, quality control, and membrane dynamics. The provided fragment represents a computationally selected, stable region optimized for experimental applications, enabling focused research on its functional domains without the complexities of the full membrane-associated protein.