Recombinant TOR3A protein (His tag)

Catalog Number	545933
Synonyms	ATP-dependent interferon-responsive protein; Torsin family 3 member A
Species	Human
Expression System	E. coli
Accession	Q9H497
Molecular Weight	Predictes a molecular mass of 36.47 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	100-397
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 100-397 aa (Q9H497) 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 Torsin-3A Fragment (residues 100-397) is a high-quality protein preparation designed for structural and biochemical research. This 298-amino acid fragment represents a stable, soluble unit of the ATP-dependent interferon-responsive protein, optimized for experimental applications requiring reliable protein behavior. Torsin-3A (TOR3A) is a member of the Torsin family of proteins in humans, characterized by its ATP-dependent activity and association with interferon response pathways. The full-length protein localizes to both the cytoplasm and endoplasmic reticulum lumen, suggesting roles in intracellular transport and stress response mechanisms. The selected fragment (100-397) was computationally designed to maintain structural integrity while enhancing solubility, making it ideal for investigating protein function and interactions without the complications of full-length protein expression.