Recombinant UXT protein (His tag)

Catalog Number	548443
Synonyms	Androgen receptor trapped clone 27 protein; ART-27; Ubiquitously expressed transcript protein
Species	Human
Expression System	E. coli
Accession	Q9UBK9
Molecular Weight	Predictes a molecular mass of 19.90 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	1-157
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-157 aa (Q9UBK9) 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 UXT Protein (Fragment 1-157) is a high-purity, stable fragment of the ubiquitously expressed transcript protein, designed for structural and functional studies. This soluble unit retains key structural features, making it ideal for investigating UXT's roles in transcriptional regulation, NF-kappa-B signaling, and mitochondrial dynamics. UXT (Ubiquitously expressed transcript protein), also known as ART-27, is a multifunctional protein involved in gene transcription regulation. It acts as a coregulator for the androgen receptor (AR) and estrogen receptor (ESR1), influencing their transcriptional activities and subcellular localization. UXT also functions as a nuclear chaperone that facilitates NF-kappa-B enhanceosome formation, thereby positively regulating NF-kappa-B transcription. Additionally, it associates with mitochondrial components like LRPPRC, potentially integrating mitochondrial function with cytoskeletal and chromosomal remodeling, and plays a role in suppressing cell transformation by interacting with proliferation factors such as MECOM. UXT localizes to both the nucleus and cytoplasm, with specific isoforms showing distinct subcellular distributions—isoform 1 is cytoplasmic and involved in apoptosis regulation by inhibiting TNF-alpha-induced apoptotic complex formation, while isoform 2 is nuclear. Its presence in centrosomes and spindle poles during mitosis further underscores its involvement in cell division processes.