Recombinant PESC protein (His tag)

Catalog Number	541704
Species	Human
Expression System	E. coli
Accession	O00541
Molecular Weight	Predictes a molecular mass of 53.31 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 54 kDa band.

Product Information

Sequence Region	1-447
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 1-447 aa (O00541) 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 Pescadillo homolog (PES1) fragment (amino acids 1-447) encompassing the complete BRCT domain. This high-quality protein is ideal for studying ribosomal RNA maturation and 60S ribosome formation mechanisms in human cellular systems. Pescadillo homolog (PES1) is an essential component of the PeBoW complex, which plays a critical role in the maturation of 28S and 5.8S ribosomal RNAs and the formation of the 60S ribosome. The protein localizes primarily to the nucleus and nucleolus, with additional presence in the nucleoplasm and association with chromosomes. During mitosis, PES1 appears at the periphery of metaphase chromosomes and in prenucleolar bodies that form prior to actual nucleoli development. This strategic localization underscores its fundamental role in ribosome biogenesis and cellular division processes.