Recombinant ARP5 protein (His tag)

Catalog Number	545970
Synonyms	hARP5; Sarcoma antigen NY-SAR-16
Species	Human
Expression System	E. coli
Accession	Q9H9F9
Molecular Weight	Predictes a molecular mass of 44.38 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band.

Product Information

Sequence Region	1-378
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 1-378 aa (Q9H9F9) 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 Actin-related protein 5 (hARP5) fragment (residues 1-378) is a high-purity, stable protein designed for chromatin remodeling and DNA repair studies. This soluble fragment supports structural and biochemical research into transcriptional regulation and genomic stability mechanisms. Actin-related protein 5 (hARP5) is a core component of the INO80 chromatin remodeling complex, playing critical roles in transcriptional regulation, DNA replication, and DNA repair processes. It is specifically involved in double-strand break repair and UV-damage excision repair. The protein exhibits dynamic nucleo-cytoplasmic shuttling, with predominant nuclear localization during interphase, though it is excluded from chromosomes during mitosis, reflecting its regulated involvement in nuclear functions.