Recombinant SARNP protein (His tag)

Catalog Number	542510
Synonyms	Cytokine-induced protein of 29 kDa; Nuclear protein Hcc-1; Proliferation-associated cytokine-inducible protein CIP29
Species	Human
Expression System	E. coli
Accession	P82979
Molecular Weight	Predictes a molecular mass of 14.98 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	92-210
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 92-210 aa (P82979) 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 SARNP (SAP domain-containing ribonucleoprotein) Fragment (aa 92-210): A high-quality, stable, and soluble 119-amino acid protein fragment ideal for structural studies, biochemical assays, and functional investigations into RNA and DNA binding, mRNA export, and transcriptional regulation. The full-length SARNP protein, also known as Cytokine-induced protein of 29 kDa or CIP29, is a multifunctional nuclear protein that binds both single-stranded and double-stranded DNA (with a preference for single-stranded forms) and single-stranded RNA. It specifically interacts with scaffold/matrix attachment region DNA and enhances the RNA unwinding activity of DDX39A. SARNP is a key component of the TREX complex, which couples mRNA transcription, processing, and nuclear export. This complex associates with spliced mRNA in a cap-dependent manner and facilitates mRNA export to the cytoplasm via the TAP/NXF1 pathway, playing a critical role in transcriptional and translational control related to cell growth, metabolism, and carcinogenesis. SARNP is localized to the nucleus and nuclear speckles, underscoring its involvement in nucleic acid metabolism and gene expression regulation.