

Recombinant Human SARNP Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50873

Size: 10ug, 100ug

Protein Name: SAP domain-containing ribonucleoprotein (Cytokine-induced protein of 29 kDa) (Nuclear protein Hcc-1) (Proliferation-associated cytokine-inducible protein CIP29)

Synonym: SARNP, HCC1, HSPC316

UniProt ID: P82979

UniProt Link: www.uniprot.org/uniprotkb/P82979/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 210 AA

Molecular Weight: 24 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MATETVELHKLKLAELKQECLARGLETGKIGKQDLIHRLQAYLEEHAEEDVVGDETEEEETKPI
ELPVKEEEPPEKTVDVAAEKVKITSEIPQTERMQKRAERFNPVSLESKKAARAARFGISSVPTKG
LSSDNKPMVNLDKLKERARFGLNVSSISRKSEDDEKLKKRKERFGIVTSSAGTGTTEDEAKKRKR
AERFGIA

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant SAP domain-containing ribonucleoprotein (Cytokine-induced protein of 29 kDa) (Nuclear protein Hcc-1) (Proliferation-associated cytokine-inducible protein CIP29) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Binds both single-stranded and double-stranded DNA with higher affinity for the single-stranded form. Specifically binds to scaffold/matrix attachment region DNA. Also binds single-stranded RNA. Enhances RNA unwinding activity of DDX39A. May participate in important transcriptional or translational control of cell growth, metabolism and carcinogenesis. Component of the TREX complex which is thought to couple mRNA transcription, processing and nuclear export, and specifically associates with spliced mRNA and not with unspliced pre-mRNA (PubMed:15338056, PubMed:17196963, PubMed:20844015). The TREX complex is recruited to spliced mRNAs by a transcription-independent mechanism, binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a splicing- and cap-dependent manner to a region near the 5' end of the mRNA where it functions in mRNA export to the cytoplasm via the TAP/NXF1 pathway (PubMed:15338056, PubMed:17196963, PubMed:20844015). Associates with DDX39B, which facilitates RNA binding of DDX39B and likely plays a role in mRNA export (PubMed:37578863).

Subcellular Localization: Nucleus. Nucleus speckle.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.