

AR51269PU-N**Human ARPP19 (1-112, His-tag) - Purified****Alternate names:**

ARPP-19, cAMP-regulated phosphoprotein 19

Quantity:

0.5 mg

Concentration:

0.5 mg/ml (determined by BCA assay)

Background:

cAMP-regulated phosphoprotein 19, also known as ARPP19, is protein phosphatase inhibitor that specifically inhibits protein phosphatase 2A (PP2A) during mitosis. When phosphorylated at Ser-62 during mitosis, specifically interacts with PPP2R2D (PR55-delta) and inhibits its activity, leading to inactivation of PP2A, an essential condition to keep cyclin-B1-CDK1 activity high during M phase. This protein may indirectly enhance GAP-43 expression.

Uniprot ID:[P56211](#)**NCBI:**[NP_006619](#)**GeneID:**[10776](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >90% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol**Description:**

Recombinant human ARPP19 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SGLVPRGSH MGSMSAEVPE AASAEQKEM EDKVT SPEKA EEAKLKARYP
HLGQKPGGSD FLRKRLQKGQ KYFDSGDYNM AKAKMKNKQL PTAAPDKTEV TGDHIPTPQD
LPQRKPSLVA SKLAG

Molecular weight: 14.7 kDa (135aa) confirmed by MALDI-TOF**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Gharbi-Ayachi A., et al. (2010) Science. 330:1673-1677
Choudhary C., et al. (2009) Science. 325:834-840

Pictures:

