

# Recombinant human ARPP19 protein

Catalog Number: ATGP2449

## PRODUCT INFORMATION

---

### Expression system

E.coli

### Domain

1-112aa

### UniProt No.

P56211

### NCBI Accession No.

NP\_006619

### Alternative Names

cAMP-regulated phosphoprotein 19, cAMP-regulated phosphoprotein 19, ARPP-16, ARPP-19, ARPP16, ENSAL

## PRODUCT SPECIFICATION

---

### Molecular Weight

14.7 kDa (135aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by BCA assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

---

### Description

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

## Recombinant human ARPP19 protein

Catalog Number: ATGP2449

### Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSMSAEVPE AASAEQKEM EDKVT SPEKA EEAKLKARYP HLGQKPGGSD  
FLRRLQKGQ KYFDSGDYNM AKAKMKNKQL PTAAPDKTEV TGDHIPTPD LPQRKPSLVA SKLAG

### General References

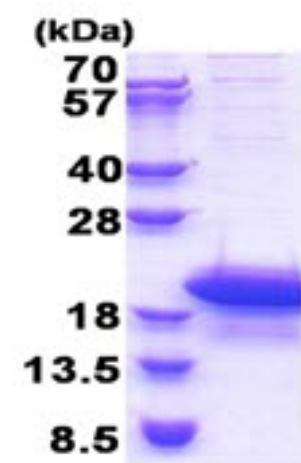
Gharbi-Ayachi A., et al. (2010) Science. 330:1673-1677

Choudhary C., et al. (2009) Science. 325:834-840

## DATA

---

### SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.