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.

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Amino acid Sequence

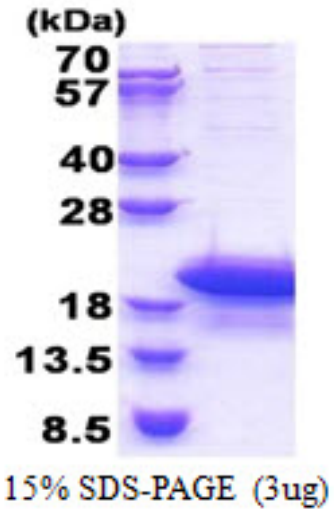
MGSSHHHHHH SSGLVPRGSH MGSMSAEVPE AASAEEQKEM EDKVTSPEKA EEAKLKARYP HLGQKPGGSD FLRKRLQKGQ KYFDSGDYNM AKAKMKNKQL PTAAPDKTEV TGDHIPTPQD LPQRKPSLVA SKLAG

General References

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

DATA

SDS-PAGE



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