

Recombinant human ARPP19, His-tagged

Cat. No. ARPP19-2449H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ARPP19 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol
Molecular Mass	14.7kDa (135aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMsAEVPE AASAEQKEM EDKVTsPEKA EEAKLKARYP HLGQKPGGSD FLRKRLQKGQ KYFDsGDYNM AKAKMKNKQL PTAAPDKTEV TGDHIPTQD LPQRKPSLVA SKLAG
Purity	>90% by SDS - PAGE
Applications	SDS-PAGE

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Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by BCA assay)
GENE INFORMATION	
Gene Name	ARPP19?cAMP-regulated phosphoprotein, 19kDa [?Homo sapiens(human)]
Official Symbol	ARPP19
Synonyms	ARPP19; ENSAL; ARPP16; ARPP-16; ARPP-19; cAMP-regulated phosphoprotein, 19kDa; cAMP-regulated phosphoprotein 19; cyclic AMP phosphoprotein, 19 kD
Gene ID	10776
mRNA Refseq	NM_006628
Protein Refseq	NP_006619
MIM	605487
UniProt ID	P56211
Chromosome Location	15q21.2
Pathway	Cell Cycle; M Phase; MASTL Facilitates Mitotic Progression; Mitotic Prophase
Function	phosphatase inhibitor activity; potassium channel regulator activity; protein phosphatase 2A binding; protein phosphatase inhibitor activity