

**ARPP19, 1-112aa, Human, His tag, E.coli**

**Cat.NO.: TP01235**

3th Edition

**Synonyms:**cAMP-regulated phosphoprotein 19, ARPP-16, ARPP-19, ARPP16, ENSAL

**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.

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

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

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGMSAEVPEAASAEQKEMEDKVTSPKAEAEAKLKARYPHLGQKPGGSDFLR  
KRLQKGQKYFDSGDYNMAKAKMKNKQLPTAAPDKTEVTGDHIPTQDLPQRKPSLVASKLAG

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by BCA assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.