

Product information

AKAP7, 1-81aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1527

Full name: A-kinase anchor protein 7 isoform gamma isoform alpha

NCBI Accession No.: NP_004833

Synonyms: AKAP15, AKAP18

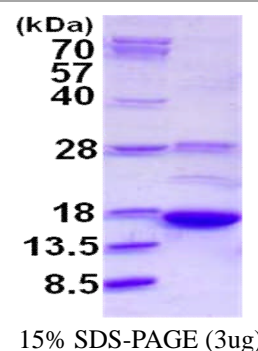
Description: AKAP7 (A-kinase anchor protein 7 isoform gamma isoform alpha) , also known as AKAP18, belongs to the A-kinase anchoring protein (AKAP) family, a group of functionally related proteins that bind to a regulatory subunit (RII) of cAMP-dependent protein kinase A (PKA) and target the enzyme to specific subcellular compartments. AKAP 7 is expressed in brain, heart, lung, pancreas and skeletal muscle. AKAP 7 binds PKA to the plasma membrane, and permits functional coupling to the L-type calcium channel. Recombinant human AKAP7 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20 mM Tris-HCl buffer, pH8.0, 10% glycerol, 1mM DTT, 50mM NaCl

Molecular Weight: 11.5kDa (105aa), confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 1mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGSHMQQLCC FPFSRDEGKI SEKNGGEPDD AELVRLSKRL VENAFLKAVQ QYLEETQKNK KPGEQSSVKT
EAADQNGNDN ENNRK

General references:

Trotter K.W., *et al.* (1999) *J. Cell Biol.* 147:1481-1492

Klussmann, E., *et al.* (2001) *Kidney Int.* 60: 446-449.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.