

AR50351PU-N**Human AKAP7 alpha/beta (1-81, His-tag) - Purified****Alternate names:**

A-kinase anchor protein 18, A-kinase anchor protein 7 isoforms alpha and beta, AKAP18, AKAP7, Protein kinase A-anchoring protein 7 isoforms alpha/beta

Quantity:

0.25 mg

Concentration:

1mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[O43687](#)

NCBI:

[NP_004833.1](#)

GeneID:

[9465](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer, pH8.0, 10% glycerol, 1mM DTT, 50mM NaCl

Description:

Recombinant human AKAP7 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SGLVPRGSH MGSHEGQLCC FPFSDREGKI SEKNGGEPDD AELVRLSKRL
VENAVLKAVQ QYLEETQNK KPEGSSVKT EAADQNGNDN ENNRK

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

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Trotter K.W., et al. (1999) J. Cell Biol. 147:1481-1492 Klusmann, E., et al. (2001) Kidney Int. 60: 446-449.

Pictures:

