Recombinant human AKAP7 protein

Catalog Number: ATGP1527

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-81aa

UniProt No.
O43687

NCBI Accession No.
NP_004833

Alternative Names
A-kinase anchor protein 7 isoform gamma isoform alpha, AKAP15, AKAP18

PRODUCT SPECIFICATION

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

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 50mM NaCl

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
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

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

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techniques.

Amino acid Sequence

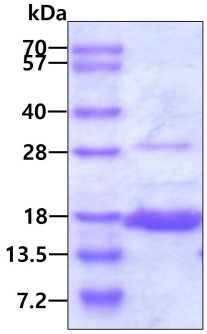
<MGSSHHHHHH SSGLVPRGSH MGSH>MGQLCC FPFSRDEGKI SEKNGGEPDD AELVRLSKRL VENAVLKAVQ QYLEETQNKN KPGEGSSVKT EAADQNGNDN ENNRK

General References

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

DATA

SDS-PAGE



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