



# Recombinant Human A-kinase anchor protein 10, mitochondrial (AKAP10)

<b>Product Code</b>	CSB-YP001519HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O43572
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	KV KGKEQEKTSD VKSIKASISV HSPQKSTKNH ALLEAAGPSH VAINAISANM DSFSSSRAT LKKQPSHMEA AHFGDLGRSC LDYQTQETKS SLSKTLEQVL HDTIVLPYFI QFMELRRMEH LVKFWLEAES FHSTTWSRIR AHSLNTVKQS SLAEPVSPSK KHETTASFLT DSLDKRLEDS GSAQLFMTHS EGIDLNNRTN STQNHLLLSQ ECDSAHSRLR EMARAGTHQV SMETQESSST LTVASRNSPA SPLKELSGKL MKSIEQDAVN TFTKYISPDA AKPIPITEAM RNDIARICG EDGQVDPNCF VLAQSIVFSA MEQEHFSEFL RSHHFCKYQI EVLTSGTVYL ADILFCESAL FYFSEYMEKE DAVNILQFWL AADNFQSQLA AKKGQYDGQE AQNDAMILYD KYFSLQATHP LGFDDVVRLE IESNICREGG PLPNCFTTPL RQAWTTMEKV FLPGLSSNL YYKYLNDLIH SVRGDEFLGG NVSLTAPGSV GPPDESHPGS SDSSASQSSV KKASIKILKN FDEAIIVDAA SLDPESLYQR TYAGKMTFGR VSDLGQFIRE SEPEPDVRKS KGSMFSSQAMK KWVQGNTDEA QEELAWKIAK MIVSDIMQQA QYDQPLEKST KL
<b>Source</b>	Yeast
<b>Target Names</b>	AKAP10
<b>Protein Names</b>	Recommended name: A-kinase anchor protein 10, mitochondrial Short name= AKAP-10 Alternative name(s): Dual specificity A kinase-anchoring protein 2 Short name= D-AKAP-2 Protein kinase A-anchoring protein 10 Short name= PRKA
<b>Expression Region</b>	29-662
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins, which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. The encoded protein interacts with both the type I and type II regulatory subunits of PKA; therefore, it is a dual-specific AKAP. This protein is highly enriched in mitochondria. It contains RGS (regulator of G protein signalling) domains, in addition to a PKA-RII subunit-binding domain. The mitochondrial localization



and the presence of RGS domains may have important implications for the function of this protein in PKA and G protein signal transduction.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.