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Datasheet for ABIN3132237
AKAP10 Protein (AA 29-662) (His tag)

Overview

Quantity:	1 mg
Target:	AKAP10
Protein Characteristics:	AA 29-662
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AKAP10 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: KVKGKEQEK LDVKSTKASV AVHSPQKSTK NHALLEAAGP SHVAINAISA NMDSFSSSRT
ATLKKQPSHM EAAHFGDLGR SCLDYQTQET KSSLSTLEQ VLRDVTVLPY FLQFMELRRM
EHLVKFWLEA ESFHSTTWSR IRAHSLNTVK QSSLAEPVSP SKRHETPASS VTEALDRRLG
DSSSAPLLVT QSEGTDLSSR TQNPQNHL L SQEGHSARSL HREVRTGSH QIPTDSQDSS
SRLAVGSRNS CSSPLRELSE KLMKSIEQDA VNTFTKYISP DAAKPIPITE AMRNDIIAKI
CGEDGQVDPN CFVLAQAVVF SAMEQEHFSE FLRSHHFCKY QIEVLTSGTV YLADILFCES
ALFYFSEYME KEDAVNILQF WLAADNFQSQ LAAKKGQYDG QEAQNDAMIL YDKYFSLQAT
HPLGFDDVVR LEIESNICRE GGPLPNCFTT PLRQAWTTME KVFLPGFLSS NLYYKYLNDL
IHSVRGDEFL GGNVSLAAHG SVCLPEESHG GSGDGSTAQS SVKKASIKIL KNFDEAIIVD
AASLDPEPLY QRTYAGKMSF GRVSDLGQFI RESEPEPDVK KSKGFMFSQA MKKWWVQGNTD
EAQEELAWKI AKMIVSDVMQ QAHHQPLEK STKL

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Akap10 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target:	AKAP10
Alternative Name:	Akap10 (AKAP10 Products)
Background:	Differentially targeted protein that binds to type I and II regulatory subunits of protein kinase A and anchors them to the mitochondria or the plasma membrane. Although the physiological relevance between PKA and AKAPS with mitochondria is not fully understood, one idea is that BAD, a proapoptotic member, is phosphorylated and inactivated by mitochondria-anchored PKA. It cannot be excluded too that it may facilitate PKA as well as G protein signal transduction, by acting as an adapter for assembling multiprotein complexes. With its RGS domain, it could lead to the interaction to G-alpha proteins, providing a link between the signaling machinery and the downstream kinase.
Molecular Weight:	71.5 kDa Including tag.
UniProt:	O88845
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)