Datasheet for ABIN3093225

KAT2A Protein (AA 2-837) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	KAT2A
Protein Characteristics:	AA 2-837
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KAT2A protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	AEPSQAPTPA PAAQPRPLQS PAPAPTPTPA PSPASAPIPT PTPAPAPAPA AAPAGSTGTG GPGVGSGGAG SGGDPARPGL SQQQRASQRK AQVRGLPRAK KLEKLGVFSA CKANETCKCN GWKNPKPPTA PRMDLQQPAA NLSELCRSCE HPLADHVSHL ENVSEDEINR LLGMVVDVEN LFMSVHKEED TDTKQVYFYL FKLLRKCILQ MTRPVVEGSL GSPPFEKPNI EQGVLNFVQY KFSHLAPRER QTMFELSKMF LLCLNYWKLE TPAQFRQRSQ AEDVATYKVN YTRWLCYCHV PQSCDSLPRY ETTHVFGRSL LRSIFTVTRR QLLEKFRVEK DKLVPEKRTL ILTHFPKFLS MLEEEIYGAN SPIWESGFTM PPSEGTQLVP RPASVSAAVV PSTPIFSPSM GGGSNSSLSL DSAGAEPMPG EKRTLPENLT LEDAKRLRVM GDIPMELVNE VMLTITDPAA MLGPETSLLS ANAARDETAR LEERRGIIEF HVIGNSLTPK ANRRVLLWLV GLQNVFSHQL PRMPKEYIAR LVFDPKHKTL ALIKDGRVIG GICFRMFPTQ GFTEIVFCAV TSNEQVKGYG THLMNHLKEY HIKHNILYFL TYADEYAIGY FKKQGFSKDI KVPKSRYLGY IKDYEGATLM ECELNPRIPY TELSHIIKKQ KEIIKKLIER KQAQIRKVYP GLSCFKEGVR QIPVESVPGI RETGWKPLGK

	EKGKELKDPD QLYTTLKNLL AQIKSHPSAW PFMEPVKKSE APDYYEVIRF PIDLKTMTER LRSRYYVTRK LFVADLQRVI ANCREYNPPD SEYCRCASAL EKFFYFKLKE GGLIDK **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. • Human KAT2A 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 receival 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.

Product Details

Grade:	Crystallography grade

Target Details

Target:	KAT2A
Alternative Name:	KAT2A (KAT2A Products)
Background:	Functions as a histone acetyltransferase (HAT) to promote transcriptional activation. Acetylation of histones gives a specific tag for epigenetic transcription activation. Has significant histone acetyltransferase activity with core histones, but not with nucleosome core particles. Also acetylates non-histone proteins, such as CEBPB (PubMed:17301242). Component of the ATAC complex, a complex with histone acetyltransferase activity on histones H3 and H4. In case of HIV-1 infection, it is recruited by the viral protein Tat. Regulates Tat's transactivating activity and may help inducing chromatin remodeling of proviral genes. {ECO:0000269|PubMed:17301242, ECO:0000269|PubMed:19103755}.
Molecular Weight:	94.7 kDa Including tag.
UniProt:	Q92830
Pathways:	Chromatin Binding, Tube Formation

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 gurantee though.
Comment:	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.

 Copyright antibodies-online. All rights reserved.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

 Copyright antibodies-online. All rights reserved.