

Datasheet for ABIN3094069

NCOA1 Protein (AA 2-1441) (His tag)



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Overview

Quantity:	1 mg
Target:	NCOA1
Protein Characteristics:	AA 2-1441
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NCOA1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	<p>SGLGDSSSDP ANPDSHKRKG SPCDTLASST EKRRREQENK YLEELAELLS ANISDIDSLS</p> <p>VKPKDKCKILK KTVDQIQLMK RMEQEKSTTD DDVQKSDISS SSQGVIEKES LGPLLEALD</p> <p>GFFFVNVCEG RIVFVSENV TSYLGYNQEEL MNTSVYSILH VGDHAEFVKN LLPKSLVNGV</p> <p>PWPQEATRRN SHTFNCRMLI HPPDEPGTEN QEACQRYEVM QCFTVSQPKS IQEDGEDFQS</p> <p>CLICIARRLP RPPAITGVES FMTKQD TTGK IISIDTSSLR AAGRTGWEDL VRKCIYAFFQ</p> <p>PQGREPSYAR QLFQEVMTRG TASSPSYRFI LNDGTMLSAH TKCKLCYPQS PDMQPFIMGI</p> <p>HIIDREHSG LSPQDDTNSGM SIPRVNPSVN PSISPAHGVA RSSTLPPSNS NMVSTRINRQ</p> <p>QSSDLHSSSH SNSSNSQGSF GCSPGSQIVA NVALNQGQAS SQSSNPSLNL NNSPMEGTGI</p> <p>SLAQFMSPRR QVTSGLATRP RMPNNSFPPN ISTLSSPVGM TSSACNNNNR SYSNIPVTSL</p> <p>QGMNEGPNN S VGFSASSPVL RQMSSQNSPS RLNIQPAKAE SKDNKEIASI LNEMIQSDNS</p> <p>SSDGKPLDSG LLHNNDRLSD GDSKYSQTSH KLVQLLTTTA EQQLRHADID TSCKDVL SCT</p> <p>GTSNSASANS SGGSCPSSH S SLTERHKILH RLLQEGSPSD ITTLSVEPDK KDSASTSVSV</p>
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TGQVQGNSSI KLELDASKKK ESKDHQLLRY LLDKDEKDLR STPNLSLDDV KVKVEKKEQM
DPCNTNPTPM TKPTPEEIKL EAQSQFTADL DQFDQLLPTL EKAAQLPGLC ETDRMDGAVT
SVTIKSEILP ASLQSATARP TSRLNRLPEL ELEAIDNQFG QPGTGDQIPW TNNTVTAINQ
SKSEDQCISS QLDELLCPPT TVEGRNDEKA LLEQLVSFLS GKDETELAEL DRALGIDKL
QGGGLDLSE RFPPQQATPP LIMEERPPLY SQPYSSPSPT ANLPSPFQGM VRQKPSLGTM
PVQVTPPRGA FSPGMGMQPR QTLNRPPAAP NQLRLQLQQR LQGQQQLIHQ NRQAILNQFA
ATAPVGINMR SGMQQQITPQ PPLNAQMLAQ RQRELYSQH RQRQLIQQR AMLMRQSFQ
NNLPSSGLP VQMGNPRLPQ GAPQQFPYPP NYGTNPGTTP ASTSPFSQLA ANPEASLANR
NSMVS GMTG NIGGQFGTGI NPQMQQNVFQ YPGAGMVPQG EANFAPSLSP GSSMVPMPIP
PPQSLLQQT PPASGYQSPD MKAWQQGAIG NNNVFSQAVQ NQPTPAQPGV YNNMSITVSM
AGGNTNVQNM NPMMAQMMS SLQMPGMNTV CPEQINDPAL RHTGLYCNQL SSTDLLKTEA
DGTQQVQQVQ VFADVQCTVN LVGGDPYLNQ PGPLGTQKPT SGPQTPQAQQ KSLLQQLLTE

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 NCOA1 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.

Product Details

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:	NCOA1
Alternative Name:	NCOA1 (NCOA1 Products)
Background:	<p>Nuclear receptor coactivator that directly binds nuclear receptors and stimulates the transcriptional activities in a hormone-dependent fashion. Involved in the coactivation of different nuclear receptors, such as for steroids (PGR, GR and ER), retinoids (RXRs), thyroid hormone (TRs) and prostanoids (PPARs). Also involved in coactivation mediated by STAT3, STAT5A, STAT5B and STAT6 transcription factors. Displays histone acetyltransferase activity toward H3 and H4, the relevance of such activity remains however unclear. Plays a central role in creating multisubunit coactivator complexes that act via remodeling of chromatin, and possibly acts by participating in both chromatin remodeling and recruitment of general transcription factors. Required with NCOA2 to control energy balance between white and brown adipose tissues. Required for mediating steroid hormone response. Isoform 2 has a higher thyroid hormone-dependent transactivation activity than isoform 1 and isoform 3.</p> <p>{ECO:0000269 PubMed:10449719, ECO:0000269 PubMed:12954634, ECO:0000269 PubMed:7481822, ECO:0000269 PubMed:9223281, ECO:0000269 PubMed:9223431, ECO:0000269 PubMed:9296499, ECO:0000269 PubMed:9427757}.</p>
Molecular Weight:	157.6 kDa Including tag.
UniProt:	Q15788
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway , Nuclear Hormone Receptor Binding ,

Target Details

Chromatin Binding, Regulation of Lipid Metabolism by PPARalpha

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