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CRTC1 Protein (AA 1-630) (His tag)



Image



Overview

Quantity:	1 mg
Target:	CRTC1
Protein Characteristics:	AA 1-630
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CRTC1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

MATSNNPRKF SEKIALHNQK QAEETAAFEE VMKDLSLTRA ARLQLQKSQY LQLGPSRGQY
YGGSLPNVNQ IGSSSVDLAF QTPFQSSGLD TSRTTRHHGL VDRVYRERGR LGSPHRRPLS
VDKHGRQADS CPYGTVYLSP PADTSWRRTN SDSALHQSTM TPSQAESFTG GSQDAHQKRV
LLLTVPGMED TGAETDKTLS KQSWDSKKAG SRPKSCEVPG INIFPSADQE NTTALIPATH
NTGGSLPDLT NIHFPSPLPT PLDPEEPPFP ALTSSSSTGS LAHLGVGGAG QGMNTPSSSP
QHRPAVVSPL SLSTEARRQQ AQQVSPTLSP LSPITQAVAM DALSLEQQLP YAFFTQTGSQ
QPPPQPPPPPPVSQQQP PPPQVSVGLP QGGPLLPSAS LTRGPQLPPL SVTVPSTLPQ
SPTENPGQSP MGIDATSAPA LQYRTSAGSP ATQSPTSPVS NQGFSPGSSP QHTSTLGSVF
GDAYYEQQMT ARQANALSRQ LEQFNMMENA ISSSSLYNPG STLNYSQAAM MGLSGSHGGL
QDPQQLGYTG HGGIPNIILT VTGESPPSLS KELSSTLAGV SDVSFDSDHQ FPLDELKIDP
LTLDGLHMLN DPDMVLADPA TEDTFRMDRL

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

Product Details special request, please contact us. Characteristics: · Made in Germany - from design to production - by highly experienced protein experts. · Mouse Crtc1 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.

Grade: Crystallography grade

0.22 µm filtered

Protein is endotoxin free.

Purity:

Sterility:

Endotoxin Level:

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

Target Details

Target:	CRTC1
Alternative Name:	Crtc1 (CRTC1 Products)
Background:	Transcriptional coactivator for CREB1 which activates transcription through both consensus and variant cAMP response element (CRE) sites. Acts as a coactivator, in the SIK/TORC signaling pathway, being active when dephosphorylated and acts independently of CREB1 'Ser-133' phosphorylation. Enhances the interaction of CREB1 with TAF4. Regulates the expression of specific CREB-activated genes such as the steroidogenic gene, StAR. Potent coactivator of PGC1alpha and inducer of mitochondrial biogenesis in muscle cells (By similarity). In the hippocampus, involved in late-phase long-term potentiation (L-LTP) maintenance at the Schaffer collateral-CA1 synapses. May be required for dendritic growth of developing cortical neurons. In concert with SIK1, regulates the light-induced entrainment of the circadian clock. In response to light stimulus, coactivates the CREB-mediated transcription of PER1 which plays an important role in the photic entrainment of the circadian clock. (ECO:0000250 UniProtKB:Q157S1, ECO:0000250 UniProtKB:Q6UUV9, ECO:0000269 PubMed:17360587, ECO:0000269 PubMed:23699513, ECO:0000269 PubMed:23993098}.
Molecular Weight:	67.9 kDa Including tag.
UniProt:	Q68ED7
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:	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

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

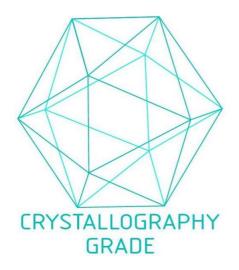


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process