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# Datasheet for ABIN3091958 CREB3 Protein (AA 1-254) (His tag)

Image



#### Overview

1 mg
CREB3
AA 1-254
Human
Insect Cells
Recombinant
This CREB3 protein is labelled with His tag.
ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)
MELELDAGDQ DLLAFLLEES GDLGTAPDEA VRAPLDWALP LSEVPSDWEV DDLLCSLLSP
PASLNILSSS NPCLVHHDHT YSLPRETVSM DLGECEISLT GRTGFMGLAI HTFPFAESES
CRKEGTQMTP QHMEELAEQE IARLVLTDEE KSLLEKEGLI LPETLPLTKT EEQILKRVRR
CRKEGTQMTP QHMEELAEQE IARLVLTDEE KSLLEKEGLI LPETLPLTKT EEQILKRVRR
CRKEGTQMTP QHMEELAEQE IARLVLTDEE KSLLEKEGLI LPETLPLTKT EEQILKRVRR KIRNKRSAQE SRRKKKVYVG GLESRVLKYT AQNMELQNKV QLLEEQNLSL LDQLRKLQAM
CRKEGTQMTP QHMEELAEQE IARLVLTDEE KSLLEKEGLI LPETLPLTKT EEQILKRVRR KIRNKRSAQE SRRKKKVYVG GLESRVLKYT AQNMELQNKV QLLEEQNLSL LDQLRKLQAM VIEISNKTSS SSTC
CRKEGTQMTP QHMEELAEQE IARLVLTDEE KSLLEKEGLI LPETLPLTKT EEQILKRVRR KIRNKRSAQE SRRKKKVYVG GLESRVLKYT AQNMELQNKV QLLEEQNLSL LDQLRKLQAM VIEISNKTSS SSTC Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us. • Made in Germany - from design to production - by highly experienced protein experts. • Human CREB3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
CRKEGTQMTP QHMEELAEQE IARLVLTDEE KSLLEKEGLI LPETLPLTKT EEQILKRVRR KIRNKRSAQE SRRKKKVYVG GLESRVLKYT AQNMELQNKV QLLEEQNLSL LDQLRKLQAM VIEISNKTSS SSTC Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us. • Made in Germany - from design to production - by highly experienced protein experts. • Human CREB3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process

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	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:
	<ol> <li>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.</li> </ol>
	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:	CREB3
Alternative Name:	CREB3 (CREB3 Products)
Background:	Endoplasmic reticulum (ER)-bound transcription factor that plays a role in the unfolded protein
	response (UPR). Involved in cell proliferation and migration, tumor suppression and

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(HIV-1) virus protein expression and in the herpes simplex virus-1 (HSV-1) latent infection and reactivation from latency. Isoform 2 plays a role in the unfolded protein response (UPR). Isoform 2 acts as a positive regulator of LKN-1/CCL15-induced chemotaxis signaling of leukocyte cell migration. Isoform 2 may play a role as a cellular tumor suppressor that is
Isoform 2 acts as a positive regulator of LKN-1/CCL15-induced chemotaxis signaling of leukocyte cell migration. Isoform 2 may play a role as a cellular tumor suppressor that is
leukocyte cell migration. Isoform 2 may play a role as a cellular tumor suppressor that is
targeted by the hepatitis C virus (HSV) core protein. Isoform 2 represses the VP16-mediated
transactivation of immediate early genes of the HSV-1 virus by sequestring host cell factor-1
HCFC1 in the ER membrane of sensory neurons, thereby preventing the initiation of the
replicative cascade leading to latent infection. Isoform 3 functions as a negative transcriptional
regulator in ligand-induced transcriptional activation of the glucocorticoid receptor NR3C1 by
recruiting and activating histone deacetylases (HDAC1, HDAC2 and HDAC6). Isoform 3
decreases the acetylation level of histone H4. Isoform 3 does not promote the chemotactic
activity of leukocyte cells., Processed cyclic AMP-responsive element-binding protein 3: acts as
a transcription factor that activates unfolded protein response (UPR) target genes during
endoplasmic reticulum (ER) stress response. Promotes cell survival against ER stress-induced
apoptotic cell death during UPR. Activates transcription from CRE and C/EBP-containing
reporter genes. Induces transcriptional activation of chemokine receptors. Activates
transcription of genes required for reactivation of the latent HSV-1 virus. Down-regulates Tat-
dependent transcription of the HIV-1 LTR by interacting with HIV-1 Tat. It's transcriptional
activity is inhibited by CREBZF in a HCFC1-dependent manner, by the viral transactivator
protein VP16 and by the HCV core protein. Binds DNA to the cAMP response element (CRE)
(consensus: 5'-GTGACGT[AG][AG]-3') and C/EBP sequences present in many viral and cellular
promoters. Binds to the unfolded protein respons element (UPRE) consensus sequences sites.
Binds DNA to the 5'-CCAC[GA]-3'half of ERSE II (5'-ATTGG-N-CCACG-3'). Associates with
chromatin to the HERPUD1 promoter.

Molecular Weight:	29.5 kDa Including tag.
UniProt:	O43889
Pathways:	Thyroid Hormone Synthesis, Myometrial Relaxation and Contraction, ER-Nucleus Signaling,
	Maintenance of Protein Location, Unfolded Protein Response

### Application Details

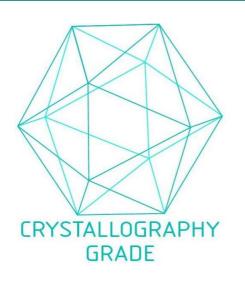
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee
	though.

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Application Details	
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 <sup>.</sup>	Liquid

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)

### Images



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

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