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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: |
| | 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: | 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 [.] | 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

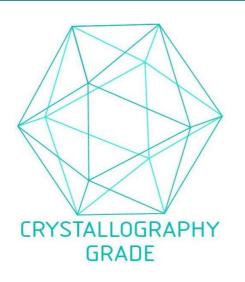


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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