

Datasheet for ABIN3135839
E2F7 Protein (AA 1-904) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	E2F7
Protein Characteristics:	AA 1-904
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This E2F7 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MEVNCLTLKD LISPRQTRLD FAIEDAEN AQ KENIFVDRSR MTPKTPMKNE PIDLSKQRIF TPDRNPITPV KPVD RQPQVE PWTPTANLKM LISAASPD IR DREKKKELFR PIENKEDAFV NSLQLDVAGD GAVDEYEKQR PSRKQKSLGL LCQKFLARYP SYPLSTEKTT ISLDEVAVSL GVERRRIYDI VNVLESLHLV SRVAKNQYGW HGRHSLPKTL RTLQRLGEEQ KYEEQMACLQ QKELDLMGYR FGERRKDGSP DPRDPHLLDF SEADYPSSSA NSRKDKSLRI MSQKFVMLFL VSKTKIVTLD VAAKILIEES QDTPDHSKFK TKVRRLYDIA NVLTSLALIK KVHVTEERGR KPAFKWIGPV DFSSIDEELL DVSASILPEL KKEAYGQIRV CAKERLVRYG SFNTVHTSEK IQRKVSSEPS SPQGERQGSA YSLEIGSLAA IYRQKVEDNS QEEAFVSNTA VPPASILDPA LSMDSEYCVK PLAQPVFSVA QTDLPAFSAQ NGPSGQVGVP VPSAASDTEN LKPALLAGQP LVYVPSTQLF MLYGSVQEGL SPESRSEEDG GGSDVPADLS VTPSAQKRLC EERDPQEEED EPAMKRQSQE FEDSPLSLVM PKKPSSSTD L ACPVTMGNGS SPPLIEDACVK GQLPAAEEVT GKAAPNCYVA SECGNPARNP DTEKPSNENE ITKDP SLMQY LYVQSPAGLN GFNMVLPGTQ
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TPHTVAPSPA QLPSFGVPCM FLQSPGLGPF PVLYSPAIPG PISSAPGTHP NPGPMNFGLS
TLASASHLLI SPAAMVNPKEP STLPCTDPQL RCQPSLNLNP VMPSHGSHGVIH PESPCYVRHP
VSMVKAEQSP APATPKSIQR RHRETFKTP GSLGDPVFRR KERNQSRNTS SAQRRLEISS SGPD

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.
- Mouse E2f7 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.

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

Product Details

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: E2F7

Alternative Name: E2f7 ([E2F7 Products](#))

Background: Atypical E2F transcription factor that participates in various processes such as angiogenesis, polyploidization of specialized cells and DNA damage response. Mainly acts as a transcription repressor that binds DNA independently of DP proteins and specifically recognizes the E2 recognition site 5'-TTTC[CG]CGC-3'. Directly represses transcription of classical E2F transcription factors such as E2F1. Acts as a regulator of S-phase by recognizing and binding the E2-related site 5'-TTCCCGCC-3' and mediating repression of G1/S-regulated genes. Plays a key role in polyploidization of cells in placenta and liver by regulating the endocycle, probably by repressing genes promoting cytokinesis and antagonizing action of classical E2F proteins (E2F1, E2F2 and/or E2F3). Required for placental development by promoting polyploidization of trophoblast giant cells. Also involved in DNA damage response: up-regulated by p53/TP53 following genotoxic stress and acts as a downstream effector of p53/TP53-dependent repression by mediating repression of indirect p53/TP53 target genes involved in DNA replication. Acts as a promoter of sprouting angiogenesis, possibly by acting as a transcription activator: associates with HIF1A, recognizes and binds the VEGFA promoter, which is different from canonical E2 recognition site, and activates expression of the VEGFA gene. Acts as a negative regulator of keratinocyte differentiation. {ECO:0000269|PubMed:12893818, ECO:0000269|PubMed:18194653, ECO:0000269|PubMed:22180533, ECO:0000269|PubMed:22516201, ECO:0000269|PubMed:22802529, ECO:0000269|PubMed:22903062, ECO:0000269|PubMed:23064264, ECO:0000269|PubMed:23064266}.

Molecular Weight: 100.5 kDa Including tag.

UniProt: [Q6S7F2](#)

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 guarantee though.

Application Details

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 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