

Datasheet for ABIN7553736
E2F7 Protein (AA 1-911) (His tag)



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Overview

Quantity:	1 mg
Target:	E2F7
Protein Characteristics:	AA 1-911
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This E2F7 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant E2F7 Protein expressed in mammalian cells.
Sequence:	MEVNCLTLKD LISPRQPRLD FAVEDGENAQ KENIFVDRSR MAPKTPIKNE PIDLSKQKKF TPERNPITPV KFVDRQQAEP WTPTANLKML ISAASPDIRD REKKKGLFRP IENKDDAFTD SLQLDVVGDS AVDEFKQRP SRKQKSLGLL CQKFLARYPS YPLSTEKTTI SLDEVAVSLG VERRRIYDIV NVLESLHLVS RVAKNQYGWH GRHSLPKTLR NLQRLGEEQK YEEQMAYLQQ KELDLIDYKF GERKKDGDPD SQEQQLLDFS EPDCPSSSAN SRKDKSLRIM SQKFVMLFLV SKTKIVTLDV AAKILIEESQ DAPDHSKFKT KVRRLYDIAN VLTSLALIKK VHVTEERGRK PAFKWIGPVD FSSSDEELVD VSASVLPKEL RETYGQIQVC AKQKLARHGS FNTVQASERI QRKVNSEPSS PYREEQGSGG YSLEIGSLAA VYRQKIEDNS QGKAFASKRV VPPSSSLDPV APFPVLSVDP EYCVNPLAHP VFSVAQTDLQ AFSMQNGLNG QVDVSLASAA SAVESLKPAL LAGQPLVYVP SASLFMLYGS LQEGPASGSG SERDDRSSEA PATVELSSAP SAQKRLCEER KPQEEDEPAT KRQSREYEDG PLSLVMPKKP SDSTDLASPK TMGNRASIPK KDIHVNGQLP AAEEISGKAT ANSLVSSEWG NPSRNTDVEK PSKENESTKE PSLQYLCVQ SPAGLNGFNV

Product Details

LLSGSQTPPT VGPSSGQLPS FSVPCMVLP PPLGPFVLY SPAMPGPVSS TLGALPNTGP
VNFSPLGLGS IAQLLVGPTA VVNPKSSTLP SADPQLQSQP SLNLSPVMSR SHSVVQQPES
PVYVGHVPVS VKLHQSPVPV TPKSIQRTHR ETFFKTPGSL GDPVLKRRER NQSRNTSSAQ
RRLEIPSGGA D **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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 try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	E2F7
Alternative Name:	E2F7 (E2F7 Products)
Background:	Transcription factor E2F7 (E2F-7),FUNCTION: 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

Target Details

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:14633988, ECO:0000269|PubMed:15133492, ECO:0000269|PubMed:18202719, ECO:0000269|PubMed:19223542, ECO:0000269|PubMed:21248772, ECO:0000269|PubMed:22802528, ECO:0000269|PubMed:22802529, ECO:0000269|PubMed:22903062}.

Molecular Weight: 99.9 kDa

UniProt: [Q96AV8](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months