

Datasheet for ABIN3137641

Elf4 Protein (AA 1-655) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	Elf4
Protein Characteristics:	AA 1-655
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Elf4 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: MAIALQPSDL VFEFASNGMD DIHQLEDPSV FPAVIVEQVP YPELVHLCSE LDLDEVHNGI
IRDRTLCTMTQ DQILEGSILL TDDDVSTSNV VSSTEVLFNV ATPSDVLDEK QIFSSPEVLS
DSNSVQAINL PNFLSTPEP DDLKKTSDAG DQKEHSEEEK VSREENLRKM GKARKRNRKT
KNNRSTSPVT DPSMPIRKKS KDGKGSTIYL WEFLLALLQD RNTCPKYIKW TQREKGIFKL
VDSKAVSKLW GKQKNKPDMM YETMGRALRY YYQRGILAKV EGQRLVYQFK EMPKDLVVLD
DEEESPETPE DSSQASTSST PSTSTIRRAS SRVGTRASPE DKDNPPEWPK KVQHTGLQPS
ASLELGLSVD EEVPTTSTML ASPLQSQARL TKTVSSSPAP SNIHLGVAPV GPGSTVTLQT
IPLTTVLTNG PPASTTAPTQ LVLQSVQVS TFKDTFTLQT SFPLNTNLQE NQVATQGAPL
ILSGLPQLLA GANPQSNPAP SQVIGAGSAG PSSQPPGTVI AAFIRTSSGT SVPVWKEGPL
RSSSYVQGVV TGAPVEGLLV PEETLRELLR DQGHLLQPLPS QVLSRGSNHL SLVGNQTLSP
PSHPTVGLTP VAELELSSGS GPLFVTEPSV TRSPTQAPFS PFNPTSLIKM EPQDI

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 Elf4 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

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target:	Elf4
Alternative Name:	Elf4 (Elf4 Products)
Background:	<p>Transcriptional activator that binds to DNA sequences containing the consensus 5'-WGGA-3'. Transactivates promoters of the hematopoietic growth factor genes CSF2, IL3, IL8, and of LYZ. Acts synergistically with RUNX1 to transactivate the IL3 promoter (By similarity). Also transactivates the PRF1 promoter in natural killer (NK) cells. Plays a role in the development and function of NK and NK T-cells and in innate immunity. Controls the proliferation and homing of CD8+ T-cells via the Kruppel-like factors KLF4 and KLF2. Controls cell senescence in a p53-dependent manner. Can also promote cellular transformation through inhibition of the p16 pathway. {ECO:0000250, ECO:0000269 PubMed:12387738, ECO:0000269 PubMed:19380490, ECO:0000269 PubMed:19412182}.</p>
Molecular Weight:	71.8 kDa Including tag.
UniProt:	Q9Z2U4
Pathways:	Positive Regulation of Endopeptidase Activity

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.
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.

Handling

Expiry Date: Unlimited (if stored properly)

Images



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