

Datasheet for ABIN7553779

## Elf4 Protein (AA 1-663) (His tag)



[Go to Product page](#)

### Overview

Quantity:	1 mg
Target:	Elf4
Protein Characteristics:	AA 1-663
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Elf4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Purpose:	Custom-made recombinat ELF4 Protein expressed in mammalian cells.
Sequence:	<p>MAITLQPSDL IFEFASNGMD DDIHQLEDPS VFPVIVEQV PYPDLLHLYS GLELDDVHNG</p> <p>IITDGTLCMT QDQILEGSFL LTDDNEATSH TMSTAELLN MESPSDILDE KQIFSTSEML</p> <p>PDSDPAPAVT LPNYLFPASE PDALNRAGDT SDQEGHSLEE KASREESAKK TGKSKKRIRK</p> <p>TKGNRSTSPV TDPSIPIRKK SKDGKGSTIY LWEFLALLQ DRNTCPKYIK WTQREKGIFK</p> <p>LVDSKAVSKL WGKQKNKPDM NYETMGRALR YYYQRGILAK VEGQRLVYQF KEMPKDLVVI</p> <p>EDEDESSEAT AAPPQASTAS VASASTTRRT SSRVSSRSAP QGKGSSSWEK PKIQHVGLQP</p> <p>SASLELGPSL DEEIPPTSTM LVSPAEGQVK LTKAVSASSV PSNIHLGVAP VGSGSALTQ</p> <p>TIPLTTVLTN GPPASTTAPT QLVLSQVPAA STFKDTFTLQ ASFPLNASFQ DSQVAAPGAP</p> <p>LILSGLPQLL AGANRPTNPA PPTVTGAGPA GPSSQPPGTV IAAFIRTS GT TAAPRVKEGP</p> <p>LRSSSYVQGM VTGAPMEGLL VPEETLRELL RDQAHQPLP TQVVSRGSHN PSLLGNQTLS</p> <p>PPSRPTVGLT PVAEELSSG SGSLLEMAEPS VTTSGSLLTR SPTPAPFSPF NPTSLIKMEP HDI</p>

**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.**

### 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, Western Blot

### Grade:

custom-made

## Target Details

### Target:

Elf4

### Alternative Name:

ELF4 ([Elf4 Products](#))

### Background:

ETS-related transcription factor Elf-4 (E74-like factor 4) (Myeloid Elf-1-like factor),FUNCTION: 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 the bovine lysozyme gene. Acts synergistically with RUNX1 to transactivate the IL3 promoter (By similarity). Transactivates the PRF1 promoter in natural killer (NK) cells and CD8+ T cells (PubMed:34326534). 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 (By similarity). Controls cell senescence in a p53-dependent manner. Can also promote cellular transformation through inhibition of the p16 pathway. Is a transcriptional regulator of inflammation, controlling T-helper 17 (Th17) cells and macrophage

## Target Details

inflammatory responses. Required for sustained transcription of anti-inflammatory genes, including IL1RN (PubMed:34326534, PubMed:35266071). Is a negative regulator of pro-inflammatory cytokines expression including IL17A, IL1B, IL6, TNFA and CXCL1 (PubMed:34326534, PubMed:35266071). Down-regulates expression of TREM1, a cell surface receptor involved in the amplification of inflammatory responses (By similarity) (PubMed:34326534, PubMed:35266071). {ECO:0000250, ECO:0000269|PubMed:10207087, ECO:0000269|PubMed:14625302, ECO:0000269|PubMed:14976184, ECO:0000269|PubMed:19380490, ECO:0000269|PubMed:34326534, ECO:0000269|PubMed:35266071, ECO:0000269|PubMed:8895518, ECO:0000269|PubMed:9524226}.

Molecular Weight: 70.7 kDa

UniProt: [Q99607](#)

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.

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