

Datasheet for ABIN7549676  
**COBRA1 Protein (AA 1-580) (His tag)**



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## Overview

Quantity:	1 mg
Target:	COBRA1
Protein Characteristics:	AA 1-580
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This COBRA1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant NELFB Protein expressed in mammalian cells.
Sequence:	MFAGLQDLGV ANGEDLKETL TNCTEPLKAI EQFQTENGLV LPSLQSALPF LDHGTTPRLE FHQSVFDELR DKLLERSVAI ASEGKAEERY KKLEDLLEKS FSLVKMPSLQ PVVMCVMKHL PKVPEKCLKL VMADKELYRA CAVEVKRQIW QDNQALFGDE VSPLLKQYIL EKESALFSTE LSVLHNFFSP SPKTRRQGEV VQRLTRMVGK NVKLYDMVLQ FLRTLFLRTR NVHYCTLRAE LLMSLHDLDV GEICTVDPCH KFTWCLDACI RERFVDSKRA RELQGFLDGV KKGQEQLGD LSMILCDPFA INTLALSTVR HLQELVGQET LPRDSPDLLL LLRLLALGQG AWDMIDSQVF KEPKMEVELI TRFLPMLMSF LVDDYTFNVD QKLPAAEEKAP VSYPNLTPES FTKFLQEQRN ACEVGLYYVL HITKQRNKNA LLRLLPGLVE TFGDLAFGDI FLHLLTG NLA LLADEFALED FCSSLFDGFF LTASPRKENV HRHALRLLIH LHPRVAPSKL EALQKALEPT GQSGEAVKEL YSQLGEKLEQ LDHRKPSPAQ AAETPALELP LPSVPAPAPL <b>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</b>

## Product Details

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### **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

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Target: COBRA1

Alternative Name: NELFB ([COBRA1 Products](#))

Background: Negative elongation factor B (NELF-B) (Cofactor of BRCA1),FUNCTION: Essential component of the NELF complex, a complex that negatively regulates the elongation of transcription by RNA polymerase II (PubMed:12612062). The NELF complex, which acts via an association with the DSIF complex and causes transcriptional pausing, is counteracted by the P-TEFb kinase complex (PubMed:10199401). May be able to induce chromatin unfolding (PubMed:11739404). Essential for early embryogenesis, plays an important role in maintaining the undifferentiated state of embryonic stem cells (ESCs) by preventing unscheduled expression of developmental genes (By similarity). Plays a key role in establishing the responsiveness of stem cells to developmental cues, facilitates plasticity and cell fate commitment in ESCs by establishing the appropriate expression level of signaling molecules (By similarity). Supports the transcription of

## Target Details

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genes involved in energy metabolism in cardiomyocytes, facilitates the association of transcription initiation factors with the promoters of the metabolism-related genes (By similarity). {ECO:0000250|UniProtKB:Q8C4Y3, ECO:0000269|PubMed:10199401, ECO:0000269|PubMed:11739404, ECO:0000269|PubMed:12612062}., FUNCTION: (Microbial infection) The NELF complex is involved in HIV-1 latency possibly involving recruitment of PCF11 to paused RNA polymerase II (PubMed:23884411). In vitro, binds weakly to the HIV-1 TAR RNA which is located in the long terminal repeat (LTR) of HIV-1 (PubMed:23884411). {ECO:0000269|PubMed:23884411}.

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Molecular Weight: 65.7 kDa

UniProt: [Q8WX92](#)

## Application Details

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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

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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