

Datasheet for ABIN7553710  
**DIAPH3 Protein (AA 1-1193) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	DIAPH3
Protein Characteristics:	AA 1-1193
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DIAPH3 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant DIAPH3 Protein expressed in mammalian cells.
Sequence:	MERHQPRLLHH PAQGSAAGTP YPSSASLRGC RESKMPPRRKG PQHPPPPSGP EEPGEKRPKF HLNIRTLTDD MLDKFASIRI PGSKKERPPL PNLKTAFASS DCSAAPLEMM ENFPKPLSEN ELLELFKEMM EDMNLNEDKK APLREKDFS I KKEMVMQYIN TASKTGSLKR SRQISPQEFI HELKMGSADE RLVTCLESLR VSLTSNPVSW VESFGHEGLG LLLDILEKLI SGKIQEKVVK KNQHKVIQCL KALMNTQYGL ERIMSEERSL SLLAKAVDPR HPNMMTDVVK LLSAVCIVGE ESILEEVLEA LTSAGEEKI DRFFCIVEGL RHNSVQLQVA CMQLINALVT SPDDLDFRLH IRNEFMRCGL KEILPNLKCI KNDGLDIQLK VFDEHKEEDL FELSHRLEDI RAELEAYDV YNMVWSTVKE TRAEGYFISI LQHLLLRND YFIRQQYFKL IDECVSQIVL HRDGMDFDFT YRKRDLDLT QFVDICIDQA KLEEFEEKAS ELYKKFEKEF TDHQETQAE L QKKEAKINEL QAE LQAFKSQ FGALPADCNI PLPPSKEGGT GHSALPPPPP LPSGGGVPPP PPPPPPPPLP GMRMPFSGPV PPPPPLGFLG GQNSPPLPIL PFGLKPKKEF KPEISMRLN WLKIRPHEMT ENCFWIKVNE NKYENVDLLC KLENTFCCQK KERREEEDIE EKSIKKKIK ELKFLDSKIA

## Product Details

---

QNLSIFLSSF RVPYEEIRMM ILEVDETRLA ESMIQNLIKH LPDQEQLNSL SQFKSEYSNL  
CEPEQFVVVM SNVKRLRPRL SAILFKLQFE EQVNNIKPDI MAVSTACEEI KKSXSFSKLL  
ELVLLMGNYM NAGSRNAQTF GFNLSSLCKL KDTKSADQKT TLLHFLVEIC EEKYPDILNF  
VDDLEPLDKA SKVSVETLEK NLRQMGRQLQ QLEKELETFP PPEDLHDKFV TKMSRFVISA  
KEQYETLSKL HENMEKLYQS IIGYYAIDVK KVSVEDFLTD LNNFRITTFMQ AIKENIKKRE  
AEEKEKRVRI AKELAERERL ERQQKKKRLLEMKTEGDETG VMDNLLLEALQ SGAAFRDRRK  
RTPMPKDVRQ SLSPMSQRPV LKVCNHENQK VQLTEGSRSH YNINCNSTRT PVAKELNYNL  
DTHSTGRIK AAEKKEACNV ESNRKKETEL LGSFSKNESV PEVEALLARL RAL **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: DIAPH3

---

Alternative Name: DIAPH3 ([DIAPH3 Products](#))

---

## Target Details

---

**Background:** Protein diaphanous homolog 3 (Diaphanous-related formin-3) (DRF3) (MDia2),FUNCTION: Actin nucleation and elongation factor required for the assembly of F-actin structures, such as actin cables and stress fibers. Required for cytokinesis, stress fiber formation and transcriptional activation of the serum response factor. Binds to GTP-bound form of Rho and to profilin: acts in a Rho-dependent manner to recruit profilin to the membrane, where it promotes actin polymerization. DFR proteins couple Rho and Src tyrosine kinase during signaling and the regulation of actin dynamics. Also acts as an actin nucleation and elongation factor in the nucleus by promoting nuclear actin polymerization inside the nucleus to drive serum-dependent SRF-MRTFA activity. {ECO:0000250|UniProtKB:Q9Z207}.

---

**Molecular Weight:** 136.9 kDa

---

**UniProt:** [Q9NSV4](#)

---

## 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

---