

Datasheet for ABIN7553738
DPF3 Protein (AA 1-378) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	DPF3
Protein Characteristics:	AA 1-378
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DPF3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat DPF3 Protein expressed in mammalien cells.
Sequence:	MATVIHNPLK ALGDQFYKEA IEHCRSYNSR LCAERSVRLP FLDSQTGVAQ NNCYIWMEKR HRGPGGLAPGQ LYTYPARCWR KKRRLHPPED PKLRLLEIKP EVELPLKKDG FTSESTTLEA LLRGEGVEKK VDAREEESIQ EIQRVLENDE NVEEGNEED LEEDIPKRKN RTRGRARGSA GGRRRHDAAS QEDHDKPYVC DICGKRYKNR PGLSYHYAHT HLASEEGDEA QDQETRSPPN HRNENHRPQK GPDGTVIPNN YCDFCLGGSN MNKKSGRPEE LVSCADCGRS GHPTCLQFTL NMTEAVKTYK WQCIECKSCI LCGTSENDQ LFCDDCDRG YHMYCLNPPV AEPPEGSWSC HLCWELLKEK ASAFGCQA 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:
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Product Details

- 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
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Grade:	custom-made
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Target Details

Target:	DPF3
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Alternative Name:	DPF3 (DPF3 Products)
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Background:	<p>Zinc finger protein DPF3 (BRG1-associated factor 45C) (BAF45C) (Zinc finger protein cer-d4),FUNCTION: Belongs to the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a post-mitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to post-mitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth (By similarity). Muscle-specific component of the BAF complex, a multiprotein complex involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Specifically</p>
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Target Details

binds acetylated lysines on histone 3 and 4 (H3K14ac, H3K9ac, H4K5ac, H4K8ac, H4K12ac, H4K16ac). In the complex, it acts as a tissue-specific anchor between histone acetylations and methylations and chromatin remodeling. It thereby probably plays an essential role in heart and skeletal muscle development. {ECO:0000250, ECO:0000269|PubMed:18765789}., FUNCTION: [Isoform 2]: Acts as a regulator of myogenesis in cooperation with HDGFL2 (PubMed:32459350). Mediates the interaction of HDGFL2 with the BAF complex (PubMed:32459350). HDGFL2-DPF3a activate myogenic genes by increasing chromatin accessibility through recruitment of SMARCA4/BRG1/BAF190A (ATPase subunit of the BAF complex) to myogenic gene promoters (PubMed:32459350). {ECO:0000269|PubMed:32459350}.

Molecular Weight: 43.1 kDa

UniProt: [Q92784](#)

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