

Datasheet for ABIN7563104
Desmin Protein (DES) (AA 1-469) (His tag)



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Overview

Quantity:	1 mg
Target:	Desmin (DES)
Protein Characteristics:	AA 1-469
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Desmin protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Des Protein expressed in mammalian cells.
Sequence:	<p>MSQAYSSSQR VSSYRRTFGG APGFSLGSPL SSPVFPRAGF GTKGSSSSMT SRVYQVSRTS GGAGGLGSLR SSRLGTTTRAP SYGAGELLDF SLADAVNQEF LATRTNEKVE LQELNDRFAN YIEKVRFLEQ QNAALAAEVN RLKGREPTRV AELYEEEMRE LRRQVEVLTN QRARVDVERD NLIDDLQRLK AKLQEEIQLR EEAENLAAF RADVDAATLA RIDLERRIES LNEEIAFLKK VHEEEIRELQ AQLQEQVQV EMDMSKPDLT AALRDIRAQY ETIAAKNISE AEEWYKSKVS DLTQAANKNN DALRQAKQEM MEYRHQIQSY TCEIDALKGT NDSLMRQMRE LEDRFASEAN GYQDNARLE EEIRHLKDEM ARHLREYQDL LNVKMALDVE IATYRKLEGG EESRINLPIQ TFSALNFRET SPEQRGSEVH TKKTVMIKTI ETRDGEVSE ATQQQHEVL Sequence without tag.</p> <p>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.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

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:

Desmin (DES)

Alternative Name:

Des ([DES Products](#))

Background:

Desmin,FUNCTION: Muscle-specific type III intermediate filament essential for proper muscular structure and function. Plays a crucial role in maintaining the structure of sarcomeres, inter-connecting the Z-disks and forming the myofibrils, linking them not only to the sarcolemmal cytoskeleton, but also to the nucleus and mitochondria, thus providing strength for the muscle fiber during activity (By similarity). In adult striated muscle they form a fibrous network connecting myofibrils to each other and to the plasma membrane from the periphery of the Z-line structures (PubMed:25394388). May act as a sarcomeric microtubule-anchoring protein: specifically associates with detyrosinated tubulin-alpha chains, leading to buckled microtubules and mechanical resistance to contraction (PubMed:27102488). Required for nuclear membrane integrity, via anchoring at the cell tip and nuclear envelope, resulting in maintenance of microtubule-derived intracellular mechanical forces (PubMed:35959657). Contributes to the transcriptional regulation of the NKX2-5 gene in cardiac progenitor cells during a short period of

Target Details

cardiomyogenesis and in cardiac side population stem cells in the adult. Plays a role in maintaining an optimal conformation of nebulin (NEB) on heart muscle sarcomeres to bind and recruit cardiac alpha-actin (PubMed:27733623). {ECO:0000250|UniProtKB:P17661, ECO:0000269|PubMed:25394388, ECO:0000269|PubMed:27102488, ECO:0000269|PubMed:27733623, ECO:0000269|PubMed:35959657}.

Molecular Weight: 53.5 kDa

UniProt: [P31001](#)

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