Datasheet for ABIN7565200

Myosin IC Protein (MYO1C) (AA 1-1063) (His tag)

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Overview

Quantity:	1 mg
Target:	Myosin IC (MYO1C)
Protein Characteristics:	AA 1-1063
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Myosin IC protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Myo1c Protein expressed in mammalian cells.
Sequence:	MALQVELIPT GEIIRVVHPH RPCKLALGSD GVRVTMESAL TARDRVGVQD FVLLENFTSE AAFIENLRRR FRENLIYTYI GPVLVSVNPY RDLQIYSRQH MERYRGVSFY EVPPHLFAVA DTVYRALRTE RRDQAVMISG ESGAGKTEAT KRLLQFYAET CPAPERGGAV RDRLLQSNPV LEAFGNAKTL RNDNSSRFGK YMDVQFDFKG APVGGHILSY LLEKSRVVHQ NHGERNFHVF YQLLEGGEEE TLRRLGLERN PQSYLYLVKG QCAKVSSIND KSDWKVMRKA LSVIDFTEDE VEDLLSIVAS VLHLGNIHFA ADEDSNAQVT TENQLKYLTR LLGVEGTTLR EALTHRKIIA KGEELLSPLN LEQAAYARDA LAKAVYSRTF TWLVRKINRS LASKDAESPS WRSTTVLGLL DIYGFEVFQH NSFEQFCINY CNEKLQQLFI ELTLKSEQEE YEAEGIAWEP VQYFNNKIIC DLVEEKFKGI ISILDEECLR PGEATDLTFL EKLEDTVKPH PHFLTHKLAD QKTRKSLDRG EFRLLHYAGE VTYSVTGFLD KNNDLLFRNL KETMCSSMNP IMAQCFDKSE LSDKKRPETV ATQFKMSLLQ LVEILRSKEP AYIRCIKPND AKQPGRFDEV LIRHQVKYLG LMENLRVRRA GFAYRRKYEA FLQRYKSLCP ETWPMWAGRP QDGVAVLVRH LGYKPEEYKM GRTKIFIRFP

Product Details

	KTLFATEDSL EVRRQSLATK IQAAWRGFHW RQKFLRVKRS AICIQSWWRG TLGRRKAAKR KWAAQTIRRL IRGFILRHSP RCPENAFFLD HVRASFLLNL RRQLPRNVLD TSWPTPPPAL REASELLREL CMKNMVWKYC RSISPEWKQQ LQQKAVASEI FKGKKDNYPQ SVPRLFISTR LGTEEISPRV LQSLGSEPIQ YAVPVVKYDR KGYKPRPRQL LLTPSAVVIV EDAKVKQRID YANLTGISVS SLSDSLFVLH VQREDNKQKG DVVLQSDHVI ETLTKTALSA DRVNNININQ GSITFAGGPG RDGIIDFTSG SELLITKAKN GHLAVVAPRL NSR **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:	Myosin IC (MYO1C)
Alternative Name:	Myo1c (MYO1C Products)
Background:	Unconventional myosin-Ic (Myosin I beta) (MMI-beta) (MMIb),FUNCTION: Myosins are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular

Target Details

	movements. Their highly divergent tails bind to membranous compartments, which then are moved relative to actin filaments. Involved in glucose transporter recycling in response to insulin by regulating movement of intracellular GLUT4-containing vesicles to the plasma membrane. Component of the hair cell's (the sensory cells of the inner ear) adaptation-motor complex. Acts as a mediator of adaptation of mechanoelectrical transduction in stereocilia of vestibular hair cells. Binds phosphoinositides and links the actin cytoskeleton to cellular membranes. {ECO:0000269|PubMed:16971510}., FUNCTION: [Isoform 3]: Involved in regulation of transcription. Associated with transcriptional active ribosomal genes. Appears to cooperate with the WICH chromatin-remodeling complex to facilitate transcription. Necessary for the formation of the first phosphodiester bond during transcription initiation. {ECO:0000269|PubMed:16514417}.
Molecular Weight:	121.9 kDa
UniProt:	Q9WTI7
Pathways:	Platelet-derived growth Factor Receptor Signaling

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