

Datasheet for ABIN7563837
MYO1G Protein (AA 1-1024) (His tag)



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Overview

Quantity:	1 mg
Target:	MYO1G
Protein Characteristics:	AA 1-1024
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYO1G protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Myo1g Protein expressed in mammalian cells.
Sequence:	MLAVGRMEDE EGPEYGKPDF VLLDQLTMED FMKNLELRFE KGRIITYIGE VLVSVPYQE LPLYGPEAIA KYQGRELYER PPHLYAVANA AYKAMKRRSR DTCIVISGES GAGKTEASKH IMQYIAAVTN PSQRAEVERV KNVLLKSTCV LEAFGNARTN RNHNSSRFGK YMDINDFDKG DPVGGHIHSY LLEKSRVLKQ HVGERNFHAF YQLLRGSEDQ ELQGLHLERN PAVYNFTRQG AGLNMGVHNA LDSDEKSHQG VMEAMRIIGF SPDEVESIHR ILAAILHLGN IEFVETEENG PQKGGLEVAD EALVGYVAKL TATPRDLVLR TLLARTVASG GREVIEKSHT VAEASYARDA CAKAMYQRLF EWVVNKINSI MEPRNRDPRC DGKDTVIGVL DIYGFEVFPV NSFEQFCINY CNEKLQQLFI QLILKQEQUE YEREGIAWQT IEYFNNATIV ELVEQPHRGI LAVLDEACST AGPITDRIFL QTLDTHHRHH PHYSSRQLCP TDKTMEFGRD FQIKHYAGDV TYSVEGFIDK NRDSLQDFK RLLYNSVDPT LRAMWPDGQQ DITEVTKRPL TAGTLFKNSM VALVENLASK EPFYVRCIKP NEDKVAGRLD EAHCRHQVEY LGLLENVRVR RAGFASRQPY PRFLLRKMT CEYTWPNHLL GSDRDAVSAL LEQHGLQGDV AFGHSKLFIR SPRTLVTLEQ SRARLIPIV

Product Details

LLLQKAWRGT LARWHCRRLR AIYTIMRWFR RHKVR AHLIE LQRRFQAARQ PPLYGRDLVW
PTPPAVLQPF QDTCRVLFSR WRARQLVKNI PPSDMIQIKA KVAAMGALQG LRQDWGCQRA
WARDYLSSDT DNPTASHLFA EQLKALREKD GFGSVLFSSH VRKVNRFKRS RDRALLLTD
YLYKLEPGRQ YRVMRAVPLE AVTGLSVTSG RDQLVVLHAQ GYDDL VVCLH RSQPPLDNRI
GELVGM LAAH CQGEGR TLEV RVSDCIPLSQ RGARR LISVE PRPEQPEPDF QSSRSTFTLL WPSH

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: MYO1G

Alternative Name: Myo1g ([MYO1G Products](#))

Background: Unconventional myosin-Ig,FUNCTION: Unconventional myosin required during immune response for detection of rare antigen-presenting cells by regulating T-cell migration (PubMed:25083865). Unconventional myosins are actin-based motor molecules with ATPase

Target Details

activity and serve in intracellular movements. Acts as a regulator of T-cell migration by generating membrane tension, enforcing cell-intrinsic meandering search, thereby enhancing detection of rare antigens during lymph-node surveillance, enabling pathogen eradication (PubMed:25083865). Also required in B-cells, where it regulates different membrane/cytoskeleton-dependent processes (PubMed:24310084). Involved in Fc-gamma receptor (Fc-gamma-R) phagocytosis (PubMed:23038771). {ECO:0000269|PubMed:23038771, ECO:0000269|PubMed:24310084, ECO:0000269|PubMed:25083865}.

Molecular Weight: 117.2 kDa

UniProt: [Q5SUA5](#)

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