Datasheet for ABIN3093794

MICALL2 Protein (AA 1-904) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	MICALL2
Protein Characteristics:	AA 1-904
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MICALL2 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MAAIRALQQW CRQQCEGYRD VNICNMTTSF RDGLAFCAIL HRHRPDLINF SALKKENIYE NNKLAFRVAE EHLGIPALLD AEDMVALKVP DRLSILTYVS QYYNYFHGRS PIGGMAGVKR ASEDSEEEPS GKKAPVQAAK LPSPAPARKP PLSPAQTNPV VQRRNEGAGG PPPKTDQALA GSLVSSTCGV CGKHVHLVQR HLADGRLYHR SCFRCKQCSC TLHSGAYKAT GEPGTFVCTS HLPAAASASP KLTGLVPRQP GAMGVDSRTS CSPQKAQEAN KARPSAWEPA AGNSPARASV PAAPNPAATS ATSVHVRSPA RPSESRLAPT PTEGKVRPRV TNSSPMGWSS AAPCTAAAAS HPAVPPSAPD PRPATPQGGG APRVAAPQTT LSSSSTSAAT VDPPAWTPSA SRTQQARNKF FQTSAVPPGT SLSGRGPTPS LVLSKDSSKE QARNFLKQAL SALEEAGAPA PGRPSPATAA VPSSQPKTEA PQASPLAKPL QSSSPRVLGL PSRMEPPAPL STSSTSQASA LPPAGRRNLA ESSGVGRVGA GSRPKPEAPM AKGKSTTLTQ DMSTSLQEGQ EDGPAGWRAN LKPVDRRSPA ERTLKPKEPR ALAEPRAGEA PRKVSGSFAG SVHITLTPVR PDRTPRPASP GPSLPARSPS PPRRRRLAVP ASLDVCDNWL RPEPPGQEAR VQSWKEEEKK PHLQGKPGRP LSPANVPALP

Product Details

	GETVTSPVRL HPDYLSPEEI QRQLQDIERR LDALELRGVE LEKRLRAAEG DDAEDSLMVD WFWLIHEKQL LLRQESELMY KSKAQRLEEQ QLDIEGELRR LMAKPEALKS LQERRREQEL LEQYVSTVND RSDIVDSLDE DRLREQEEDQ MLRDMIEKLG LQRKKSKFRL SKIWSPKSKS SPSQ **Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Human MICALL2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • 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 will ensure that you receive a correctly folded protein. 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. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered

Product Details

Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	MICALL2
Alternative Name:	MICALL2 (MICALL2 Products)
Background:	Effector of small Rab GTPases which is involved in junctional complexes assembly through the regulation of cell adhesion molecules transport to the plasma membrane and actin cytoskeleton reorganization. Regulates the endocytic recycling of occludins, claudins and E-cadherin to the plasma membrane and may thereby regulate the establishment of tight junctions and adherens junctions. In parallel, may regulate actin cytoskeleton reorganization directly through interaction with F-actin or indirectly through actinins and filamins. Most probably involved in the processes of epithelial cell differentiation, cell spreading and neurite outgrowth (By similarity). {ECO:0000250}.
Molecular Weight:	98.5 kDa Including tag.
UniProt:	Q8IY33

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 gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

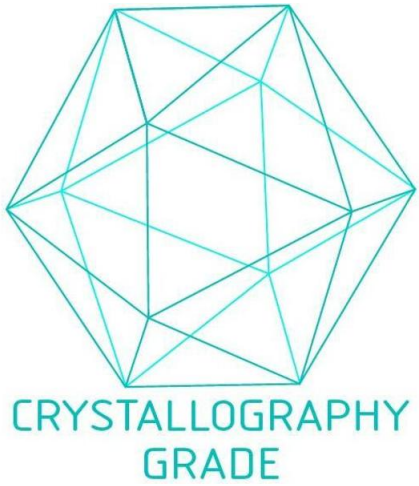

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process