Datasheet for ABIN7564247

DAAM2 Protein (AA 1-1115) (His tag)

3 Images

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Overview

Quantity:	1 mg
Target:	DAAM2
Protein Characteristics:	AA 1-1115
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DAAM2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Daam2 Protein expressed in mammalian cells.
Sequence:	MALRKRSPHG LGFLCCFGGS DLPEIDLRDS HPLQYLEFSG PIPNPEELNV RFAELVDELD LTDKNREAVF ALPPEKKWQI YCSKRKEQED PNKLATSWPE YYIDRINAMA AMQNLYETED EETDKRNQVV EDLKTALRTQ PMRFVTRFID LEGLTCLLNF LRGMDHTTCE SRIHTSLIGC IKALMNNSQG RAHVLAQPEA ISIIAQSLRT ENSKTKVAVL EILGAVCLVP GGHKKVLQAM LHYQAYAAER TRFQTLLNEL DRSLGRYRDE VNLKTAIMSF INAVLNAGAG EDNLEFRLHL RYEFLMLGIQ PVIDKLRQHE NAILDKHLDF FEMVRNEDDL ELARRFDMVH IDTKSASQMF ELIHKKLKHT EAYPCLLSVL HHCLQMPYKR NGGYFQQWQL LDRILQQIVL QDERGVDPDL APLENFNVKN IVNMLINENE VKQWRDQAEK FRKEHMELMS RLERKERECE TKTLEKEEMM RTLNKMKDKL ARESQELRQA RGQVAELVAR HNESSTGPVS SPPPPGGPLT LSSSRTTNDL PPPPPPLPFD SCPPPPAPPL PPGGPPIPPG APPCFSSGPP PSHDPFSSNE APLRKKRIPQ PSHPLKSFNW VKLNEERVSG TVWNEIDDSQ VFRILDLEDF EKMFSAYQRH QACMQEGPQR ERGNVRDGGA ASRPLPAVEA SAHRTEKASR SMVSATGAKK ELGSTEDIYI TSRKVKELSV

Product Details

	IDGRRAQNCI ILLSKLKLSN DEIRQAILRM DEQEDLAKDM LEQLLKFIPE KSDIDLLEEH KHEIERMARA DRFLYEMSRI DHYQQRLQAL FFKKKFQERL AEAKPKVEAI LLASRELTLS QRLKQMLEVV LAIGNFMNKG QRGGAYGFRV ASLNKIADTK SSIDRNISLL HYLIMILEKH FPDILNMPSE LKHLSEAAKV NLAELEKEVS ILRRGLRAVE VELEYQRHQA RDPNDKFVPV MSDFITVSSF SFSELEDQLN EARDKFAKAL THFGEQESKM QPDEFFGIFD TFLQAFLEAR QDLEAMRRRK EEDERRARME FMLKEQREKE RWQRQRKVLA GGALEESGEF DDLVSALRSG EVFDKDLSKF KRNRKRPGSQ VPEVTRERAI NRLNY **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:	DAAM2
Alternative Name:	Daam2 (DAAM2 Products)
Background:	Disheveled-associated activator of morphogenesis 2,FUNCTION: Key regulator of the Wnt

Target Details

	signaling pathway, which is required for various processes during development, such as dorsal patterning, determination of left/right symmetry or myelination in the central nervous system (PubMed:22227309, PubMed:24091014, PubMed:25754822). Acts downstream of Wnt ligands and upstream of beta-catenin (CTNNB1) (PubMed:22227309, PubMed:25754822). Required for canonical Wnt signaling pathway during patterning in the dorsal spinal cord by promoting the aggregation of Disheveled (Dvl) complexes, thereby clustering and formation of Wnt receptor signalosomes and potentiating Wnt activity (PubMed:22227309). During dorsal patterning of the spinal cord, inhibits oligodendrocytes differentiation via interaction with PIP5K1A (PubMed:25754822). Also regulates non-canonical Wnt signaling pathway (PubMed:24091014). Acts downstream of PITX2 in the developing gut and is required for left/right asymmetry within dorsal mesentery: affects mesenchymal condensation by lengthening cadherin-based junctions through WNT5A and non-canonical Wnt signaling, inducing polarized condensation in the left dorsal mesentery necessary to initiate gut rotation (PubMed:24091014). Together with DAAM1, required for myocardial maturation and sarcomere assembly (PubMed:26526197). Is a regulator of actin nucleation and elongation, filopodia formation and podocyte migration (By similarity). {ECO:0000250|UniProtKB:Q86T65, ECO:0000269|PubMed:22227309, ECO:0000269|PubMed:24091014, ECO:0000269|PubMed:25754822, ECO:0000269|PubMed:26526197}.
Molecular Weight:	128.4 kDa
UniProt:	Q80U19

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

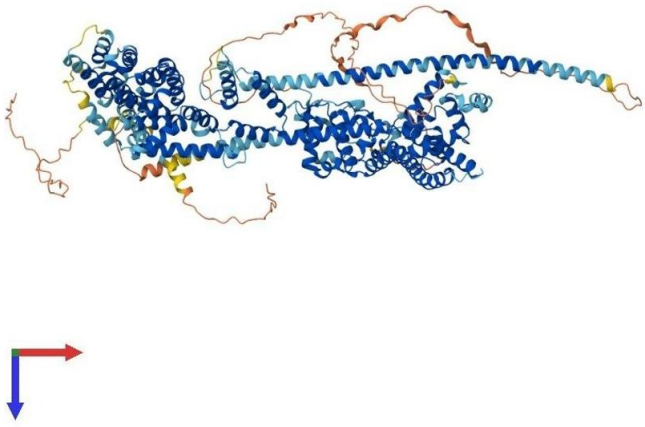
Handling

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.

Handling

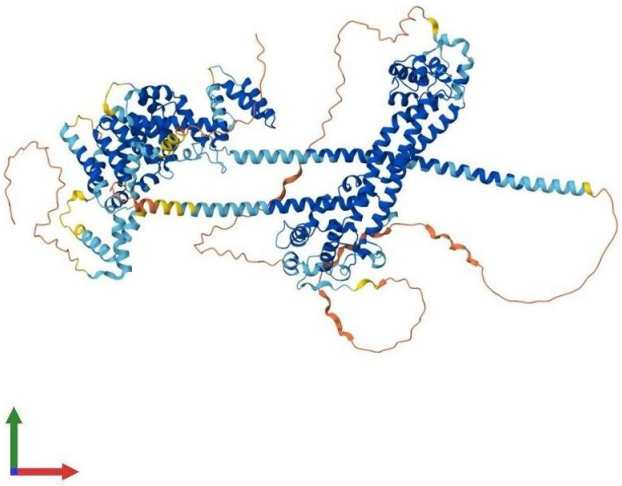
Expiry Date:	12 months

Images



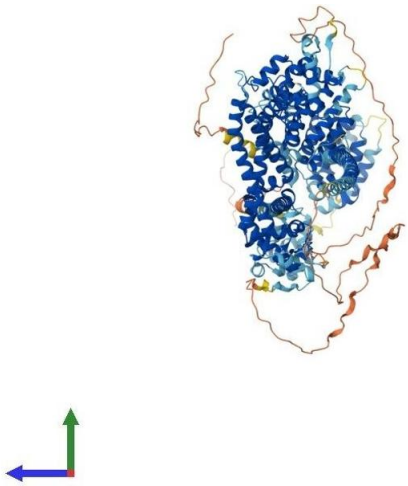
Protein Structure

Image 1. AlphaFold protein structure predicition of Mouse Recombinant Daam2 Protein, UniprotID Q80U19



Protein Structure

Image 2. AlphaFold protein structure predicition of Mouse Recombinant Daam2 Protein, UniprotID Q80U19



Protein Structure

Image 3. AlphaFold protein structure predicition of Mouse Recombinant Daam2 Protein, UniprotID Q80U19