DAAM1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	DAAM1, Recombinant Protein
Full Product Name	Recombinant Human DAAM1
Product Gene Name	DAAM1 recombinant protein
Product Synonym Names	DAAM1; KIAA0666
Host	E Coli
Form/Format	Lyophilized from a 0.2um filtered solution in PBS with 5% trehalose, pH7.4
Purity/Purification	Greater than 95% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	100,745 Da
Sequence Positions	866-1078
OMIM	606626
3D Structure	ModBase 3D Structure for Q9Y4D1
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000rpm for 1 minute, reconstitute at 200ug/ml in sterile distilled water
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for DAAM1 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for DAAM1 recombinant protein	MBS7612955 is a recombinant protein targeting DAAM1. Also known as Recombinant Human DAAM1. Host: E Coli.
Other Notes	Small volumes of DAAM1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DAAM1. It may not necessarily be applicable to this product.

NCBI GI #	21071077
NCBI GeneID	23002
NCBI Accession #	NP_055807.1
UniProt Primary Accession #	Q9Y4D1
UniProt Secondary Accession #	Q86U34; Q8N1Z8; Q8TB39
UniProt Related Accession #	Q9Y4D1
GenBank Nucleotide #	NM_014992.2

NCBI Official Full Name	disheveled-associated activator of morphogenesis 1 isoform 1
NCBI Official Synonym Full Names	dishevelled associated activator of morphogenesis 1
NCBI Official Symbol	DAAM1
UniProt Protein Name	Disheveled-associated activator of morphogenesis 1
Protein Family	Disheveled-associated activator of morphogenesis
UniProt Gene Name	DAAM1
UniProt Synonym Gene Names	KIAA0666
UniProt Entry Name	DAAM1_HUMAN
NCBI Protein Information	disheveled-associated activator of morphogenesis 1
NCBI Summary for DAAM1	Cell motility, adhesion, cytokinesis, and other functions of the cell cortex are mediated by reorganization of the actin cytoskeleton and several formin homology (FH) proteins have been associated with these processes. The protein encoded by this gene contains two FH domains and belongs to a novel FH protein subfamily implicated in cell polarity. A key regulator of cytoskeletal architecture, the small GTPase Rho, is activated during development by Wnt/Fz signaling to control cell polarity and movement. The protein encoded by this gene is thought to function as a scaffolding protein for the Wnt-induced assembly of a disheveled (Dvl)-Rho complex. This protein also promotes the nucleation and elongation of new actin filaments and regulates cell growth through the stabilization of microtubules. Alternative splicing results in multiple transcript variants encoding distinct proteins. [provided by RefSeq, Jul 2012]
UniProt Comments for DAAM1	DAAM1: Binds to disheveled (Dvl) and Rho, and mediates Wnt- induced Dvl-Rho complex formation. May play a role as a scaffolding protein to recruit Rho-GDP and Rho-GEF, thereby enhancing Rho-GTP formation. Can direct nucleation and elongation of new actin filaments. Belongs to the formin homology family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Adaptor/scaffold Chromosomal Location of Human Ortholog: 14q23.1 Cellular Component: membrane; cytoplasm; stress fiber; plasma membrane; cytosol Molecular Function: identical protein binding; protein binding; Rho GTPase binding; actin binding Biological Process: actin cytoskeleton organization and biogenesis
Research Articles on DAAM1	**1.** Daam1 plays a dual role in the phagocytic uptake of borreliae.
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