Wd Repeat and FYVE Domain-Containing Protein 1 (WDFY1) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	WD repeat and FYVE domain-containing protein 1 (WDFY1), Recombinant Protein
Full Product Name	Recombinant Human WD repeat and FYVE domain-containing protein 1 (WDFY1)
Product Gene Name	WDFY1 recombinant protein
Product Synonym Gene Name	WDFY1
Sequence	MAAEIHSRPQ SSRPVLLSKI EGHQDAVTAA LLIPKEDGVI TASEDRTIRV WLKRDSGQYW PSIYHTMASP CSAMAYHHDS RRIFVGQDNG AVMEFHVSED FNKMNFIKTY PAHQNRVSAI IFSLATEWVI STGHDKCVSW MCTRSGNMLG RHFFTSWASC LQYDFDTQYA FVGDYSGQIT LLKLEQNTCS VITTLKGHEG SVACLWWDPI QRLLFSGASD NSIIMWDIGG RKGRTLLLQG HHDKVQSLCY LQLTRQLVSC SSDGGIAVWN MDVSREEAPQ WLESDSCQKC EQPFFWNIKQ MWDTKTLGLR QHHCRKCGQA VCGKCSSKRS SYPVMGFEFQ VRVCDSCYDS IKDEDRTSLA TFHEGKHNIS HMSMDIARGL MVTCGTDRIV KIWDMTPVVG CSLATGFSPH
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	46,324 Da
Sequence Positions	1-410, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8IWB7
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for WDFY1 recombinant protein	The FYVE domain mediates the recruitment of proteins involved in membrane trafficking and cell signaling to phosphatidylinositol 3-phosphate (PtdIns(3)P)-containing membranes. This gene encodes a protein which contains a single FYVE domain and multiple WD40 repeats. This protein is localized to endosomes.
Other Notes	Small volumes of WDFY1 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.
Searchable Terms for WDFY1 purchase	MBS1477176 is a recombinant protein targeting WDFY1. Also known as Recombinant Human WD repeat and FYVE domain-containing protein 1 (WDFY1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for WDFY1. It may not necessarily be applicable to this product.

NCBI GI #	18482373
NCBI GeneID	57590

NCBI Accession #	NP_065881.1
UniProt Primary Accession #	Q8IWB7
UniProt Secondary Accession #	Q53S17; Q9H9D5; Q9P2B3
UniProt Related Accession #	Q8IWB7
GenBank Nucleotide #	NM_020830.4
NCBI Official Full Name	WD repeat and FYVE domain-containing protein 1
NCBI Official Synonym Full Names	WD repeat and FYVE domain containing 1
NCBI Official Symbol	WDFY1
NCBI Official Synonym Symbols	WDF1; FENS-1; ZFYVE17
UniProt Protein Name	WD repeat and FYVE domain-containing protein 1
UniProt Synonym Protein Names	FENS-1; Phosphoinositide-binding protein 1; WD40- and FYVE domain-containing protein 1; Zinc finger FYVE domain-containing protein 17
Protein Family	WD repeat and FYVE domain-containing protein
UniProt Gene Name	WDFY1
UniProt Synonym Gene Names	KIAA1435; WDF1; ZFYVE17
NCBI Protein Information	WD repeat and FYVE domain-containing protein 1
NCBI Summary for WDFY1	The protein encoded by this gene is a phosphatidylinositol 3-phosphate binding protein, which contains a FYVE zinc finger domain and multiple WD-40 repeat domains. When exogenously expressed, it localizes to early endosomes. Mutagenesis analysis demonstrates that this endosomal localization is mediated by the FYVE domain. [provided by RefSeq, Jan 2015]
UniProt Comments for WDFY1	Positively regulates TLR3- and TLR4-mediated signaling pathways by bridging the interaction between TLR3 or TLR4 and TICAM1. Promotes TLR3/4 ligand-induced activation of transcription factors IRF3 and NF-kappa-B, as well as the production of IFN-beta and inflammatory cytokines (PubMed:25736436).
Research Articles on WDFY1	**1.** NRP2 inhibits WDFY1 transcription by preventing the nuclear localization of a transcription factor, Fetal ALZ50-reactive clone 1 (FAC1).
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