Protein Wntless (Wls) (DwilGK20551) Drosophila Willistoni Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein wntless (wls) (DwilGK20551), Recombinant Protein
Full Product Name	Recombinant Drosophila willistoni Protein wntless (wls)
Product Gene Name	DwilGK20551 recombinant protein
Product Synonym Gene Name	wls; GK20551
Product Synonym Names	Recombinant Protein wntless (wls); Protein wntless
Sequence	APVPAGHLTI LGSLCRENHA RQNDTNFFLY SRGDGACKQV TSEEVDADAL KLANQIVHVF QLPLPRENKI LEYTRWQQNL IGVLQVEFGY DSSPELHEPA KELQLTIDMR LAYRNNDDAD NDWKLYAHSV EHRYLDCDTS HIGPTETLYT CDMIPLFELG ALHHSFYLLN LRFPLDSPKQ MNLQFGHMHD LTLTAIHQNG GFTKVWLFLK SVLFPFVVGI MVWFWRRVHL LQRSPALLEY MLIYLGGALT FLNLPLEYLT LGLEMPYMLL LSDIRQGIFY AMLLSFWLIF AGEHMLIQDS GNKSTIRSRY WKHLSAVVVG CISLFIFDIS ERGVQLRNPF YSIWTTPLGA KVAMGFIFLA GVSAAIYFLF LCFMIWKVFK NIGDKRTSLP SMSQARRLHY EGLIYRFKFL MLATLLCAAL TVAGFIMGQM AEGHWKWNEH IEIQLTSAFL TGVYGMWNIY IFALLILYAP SHKQWPSMHH SDETTQSNEN IVASAASEEI EFSHLPSDSN PSEISSLTSF TRKVAFD
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	64,159 Da
Sequence Positions	36-562
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 B4N5D3
Species	Drosophila willistoni (Fruit fly)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for DwilGK20551 recombinant protein	MBS1036313 is a recombinant protein targeting DwilGK20551. Also known as Recombinant Drosophila willistoni Protein wntless (wls). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of DwilGK20551 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 DwilGK20551. It may not necessarily be applicable to this product.

NCBI GI #	195441585
NCBI GeneID	6645925

NCBI Accession #	XP_002068586.1
UniProt Primary Accession #	B4N5D3
UniProt Related Accession #	B4N5D3
GenBank Nucleotide #	XM_002068550.1
NCBI Official Full Name	GK20551
NCBI Official Symbol	DwilGK20551
NCBI Official Synonym Symbols	dwil_GLEANR_3303; GK20551
UniProt Protein Name	Protein wntless
UniProt Gene Name	wls
UniProt Entry Name	WLS_DROWI
NCBI Protein Information	GK20551 gene product from transcript GK20551-RA; DwilGK20551-PA
UniProt Comments for DwilGK20551	Function: A segment polarity gene required for wingless (wg)-dependent patterning processes, acting in both wg-sending cells and wg-target cells. In non-neuronal cells wls directs wg secretion. The wls traffic loop encompasses the Golgi, the cell surface, an endocytic compartment and a retrograde route leading back to the Golgi, and involves clathrin-mediated endocytosis and the retromer complex (a conserved protein complex consisting of Vps35 and Vps26). In neuronal cells (the larval motorneuron NMJ), the wg signal moves across the synapse via the release of wls-containing exosome-like vesicles. Postsynaptic wls is required for the trafficking of fz2 through the fz2-interacting protein Grip By similarity. UniProtKB Q95ST2 Subunit structure: Interacts with wg; in the Golgi. Interacts with Vps35, a component of the retromer complex; wls stability is regulated by Vps35 By similarity. UniProtKB Q95ST2 Subcellular location: Cell junction › synapse › presynaptic cell membrane; Multi-pass membrane protein By similarity. Cell junction › synapse › postsynaptic cell membrane; Multi-pass membrane protein By similarity. Cell membrane; Multi-pass membrane protein By similarity. Endoplasmic reticulum membrane; Multi-pass membrane protein By similarity. Endosome membrane; Multi-pass membrane protein By similarity. Golgi apparatus membrane; Multi-pass membrane protein By similarity. Note: In non-neuronal cells, wls binds to wg in the Golgi and accompanies it to the plasma membrane where the two proteins dissociate. Wg is secreted and wls is then internalized and returns to the Golgi apparatus in a retromer-dependent manner. Wls and wg colocalize in the Golgi apparatus in wg-producing cells, and reduced expression is seen in non-producing cells. Endoplasmic recticulum expression is unchanged in wg-producing versus non-producing cells. In neuronal cells, wls is localized both pre- and postsynaptically and is transferred trans-synaptically from the pre- to the postsynaptic compartment By similarity. UniProtKB Q95ST2 Sequence similarities: Belongs to the wntless family.
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