Atpase ASNA1 Homolog (GH21552) Drosophila Grimshawi Recombinant Protein

PRODUCT OVERVIEW

Product Name	ATPase ASNA1 homolog (GH21552), Recombinant Protein
Full Product Name	Recombinant Drosophila grimshawi ATPase ASNA1 homolog (GH21552)
Product Gene Name	GH21552 recombinant protein
Sequence	MVDNLAPLEP SLQNLVDQES LKWIFVGGKG GVGKTTCSSS LAVQLAKVRE SVLIISTDPA HNISDAFDQK FTKVPTKVNG FNNLFAMEID PNAGLSELPE EYFDGENEAL RVSKGVMQEM INALPGIDEA MSYAEVMKLV KGMNFSVVVF DTAPTGHTLR LIAFPQVVEK GLGKLLRLKM KLAPLLTQFV AMLGMADVNA DTLSQKLDDM LRVITQVNEQ FKNPDQTTFV CVCIAEFFSL YETERLVQEL TKCGIDVHNI IVNQLLFLEK SHNSCSMCAS RFKIQEKYLD QIADLYEDFH VTKLPLLEKE VRGPESIKAF SENLMIPFNP KETSNK
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	37,477 Da
Sequence Positions	1-336, 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 B4J4F6
Species	Drosophila grimshawi (Fruit fly) (Idiomyia grimshawi)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GH21552 recombinant protein	MBS1251231 is a recombinant protein targeting GH21552. Also known as Recombinant Drosophila grimshawi ATPase ASNA1 homolog (GH21552). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of GH21552 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 GH21552. It may not necessarily be applicable to this product.

NCBI GI #	195027802
NCBI GeneID	6561070
NCBI Accession #	XP_001986771.1
UniProt Primary Accession #	B4J4F6
UniProt Related Accession #	B4J4F6

GenBank Nucleotide #	XM_001986735.1
NCBI Official Full Name	GH21552
NCBI Official Symbol	DgriGH21552
NCBI Official Synonym Symbols	dgri_GLEANR_5702; GH21552
UniProt Protein Name	ATPase ASNA1 homolog
UniProt Synonym Protein Names	Arsenical pump-driving ATPase homolog
UniProt Gene Name	GH21552
NCBI Protein Information	GH21552 gene product from transcript GH21552-RA
UniProt Comments for GH21552	ATPase required for the post-translational delivery of tail-anchored (TA) proteins to the endoplasmic reticulum. Recognizes and selectively binds the transmembrane domain of TA proteins in the cytosol. This complex then targets to the endoplasmic reticulum by membrane-bound receptors, where the tail-anchored protein is released for insertion. This process is regulated by ATP binding and hydrolysis. ATP binding drives the homodimer towards the closed dimer state, facilitating recognition of newly synthesized TA membrane proteins. ATP hydrolysis is required for insertion. Subsequently, the homodimer reverts towards the open dimer state, lowering its affinity for the membrane-bound receptor, and returning it to the cytosol to initiate a new round of targeting.
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