Endophilin-A1 (SH3GL2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Endophilin-A1 (SH3GL2), Recombinant Protein
Full Product Name	Recombinant Human Endophilin-A1 (SH3GL2)
Product Gene Name	SH3GL2 recombinant protein
Product Synonym Gene Name	SH3GL2
Sequence	MSVAGLKKQF HKATQKVSEK VGGAEGTKLD DDFKEMERKV DVTSRAVMEI MTKTIEYLQP NPASRAKLSM INTMSKIRGQ EKGPGYPQAE ALLAEAMLKF GRELGDDCNF GPALGEVGEA MRELSEVKDS LDIEVKQNFI DPLQNLHDKD LREIQHHLKK LEGRRLDFDY KKKRQGKIPD EELRQALEKF DESKEIAESS MFNLLEMDIE QVSQLSALVQ AQLEYHKQAV QILQQVTVRL EERIRQASSQ PRREYQPKPR MSLEFPTGDS TQPNGGLSHT GTPKPSGVQM DQPCCRALYD FEPENEGELG FKEGDIITLT NQIDENWYEG MLHGHSGFFP INYVEILVAL PH
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	39,962 Da
Sequence Positions	1-352, 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.
OMIM	604465
3D Structure	ModBase 3D Structure for Q99962
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SH3GL2 recombinant protein	MBS1342943 is a recombinant protein targeting SH3GL2. Also known as Recombinant Human Endophilin-A1 (SH3GL2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of SH3GL2 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 SH3GL2. It may not necessarily be applicable to this product.

NCBI GI #	4506931
NCBI GeneID	6456
NCBI Accession #	NP_003017.1

UniProt Primary Accession #	Q99962
UniProt Secondary Accession #	Q9NQK5; B2R618
UniProt Related Accession #	Q99962
GenBank Nucleotide #	NM_003026.3
NCBI Official Full Name	endophilin-A1
NCBI Official Synonym Full Names	SH3 domain containing GRB2 like 2, endophilin A1
NCBI Official Symbol	SH3GL2
NCBI Official Synonym Symbols	CNSA2; SH3P4; EEN-B1; SH3D2A
UniProt Protein Name	Endophilin-A1
UniProt Synonym Protein Names	EEN-B1; Endophilin-1; SH3 domain protein 2A; SH3 domain-containing GRB2-like protein 2
Protein Family	Endophilin
UniProt Gene Name	SH3GL2
UniProt Synonym Gene Names	CNSA2; SH3D2A
NCBI Protein Information	endophilin-A1
UniProt Comments for SH3GL2	Implicated in synaptic vesicle endocytosis. May recruit other proteins to membranes with high curvature. Required for BDNF-dependent dendrite outgrowth. Cooperates with SH3GL2 to mediate BDNF-NTRK2 early endocytic trafficking and signaling from early endosomes.
Research Articles on SH3GL2	**1.** This study identified a new mitochondria reprogramming pathway influencing breast cancer progression through SH3GL2 and MFN2. These proteins were frequently lost in breast cancer, which was traceable in the circulating exosomes.
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