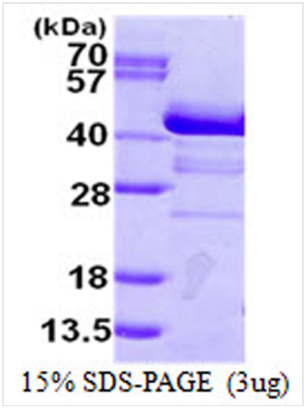
SH3GL2 Recombinant Protein

PRODUCT OVERVIEW

Product Name	SH3GL2, Recombinant Protein
Full Product Name	SH3GL2, 1-352aa, Human, His tag, E Coli
Product Gene Name	SH3GL2 recombinant protein
Product Synonym Names	Endophilin-A1; CNSA2; EEN-B1; SH3D2A; SH3P4
Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMSVAGL KKQFHKATQK VSEKVGGAEG TKLDDDFKEM ERKVDVTSRA VMEIMTKTIE YLQPNPASRA KLSMINTMSK IRGQEKGPGY PQAEALLAEA MLKFGRELGD DCNFGPALGE VGEAMRELSE VKDSLDIEVK QNFIDPLQNL HDKDLREIQH HLKKLEGRRL DFDYKKKRQG KIPDEELRQA LEKFDESKEI AESSMFNLLE MDIEQVSQLS ALVQAQLEYH KQAVQILQQV TVRLEERIRQ ASSQPRREYQ PKPRMSLEFP TGDSTQPNGG LSHTGTPKPS GVQMDQPCCR ALYDFEPENE GELGFKEGDI ITLTNQIDEN WYEGMLHGHS GFFPINYVEI LVALPH
Host	E Coli
Form/Format	Liquid. In 20 mM Tris-HCl Buffer, pH8.0, 10% glycerol, 1mM DTT, 50mM NaCl
Purity/Purification	> 90% by SDS-PAGE
Concentration	1mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	42.5 kDa (376aa) confirmed by MALDI-TOF
OMIM	X99657 mRNA
3D Structure	ModBase 3D Structure for Q99962
Antigen Species	Human
Tag Information	His-tag
Product Categories/Family for SH3GL2 recombinant protein	Cancer
Applications Tested/Suitable for SH3GL2 recombinant protein	SDS-PAGE
Related Product Information for SH3GL2 recombinant protein	SH3GL2 (SH3-domain GRB2-like 2), also known as endophilin-A1, belongs to the endophilin family. It contains a BAR domain and a SH3 domain. Members of the BAR domain protein superfamily are essential elements of cellular traffic. Endophilins are among the best studied BAR domain proteins. They have a prominent function in synaptic vesicle endocytosis (SVE), receptor trafficking and apoptosis, and in other processes that require remodeling of the membrane structure. SH3GL2 a novel tumor suppressor gene in laryngeal squamous cell carcinoma (LSCC), induces apoptosis of tumor cells by regulating intra-cellular signal transduction networks. Recombinant human SH3GL2 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product References and Citations for SH3GL2 recombinant protein	Shang C, Guo Y, Fu S, Fu W, Sun K.; Med Sci Monit. 2010 Jun;16 (6):BR168-73.
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.

Searchable Terms for SH3GL2 purchase	MBS204783 is a recombinant protein targeting SH3GL2. Also known as SH3GL2, 1-352aa, Human, His tag, E Coli. Host: E Coli.



SDS-Page of SH3GL2 recombinant protein

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
UniProt Primary Accession #	Q99962
UniProt Secondary Accession #	Q9NQK5; B2R618
UniProt Related Accession #	Q99962
GenBank Nucleotide #	NP_003017.1
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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