E3 Ubiquitin-Protein Ligase SH3RF1 (SH3RF1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	E3 ubiquitin-protein ligase SH3RF1 (Sh3rf1), Recombinant Protein
Full Product Name	Recombinant Rat E3 ubiquitin-protein ligase SH3RF1 (Sh3rf1) , partial
Product Gene Name	Sh3rf1 recombinant protein
Product Synonym Gene Name	Sh3rf1
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	93,879 Da
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 Q71F54
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Sh3rf1 recombinant protein	This gene encodes a protein containing an N-terminus RING-finger, four SH3 domains, and a region implicated in binding of the Rho GTPase Rac. Via the RING-finger, the encoded protein has been shown to function as an ubiquitin-protein ligase involved in protein sorting at the trans-Golgi network. The encoded protein may also act as a scaffold for the c-Jun N-terminal kinase signaling pathway, facilitating the formation of a functional signaling module.
Other Notes	Small volumes of Sh3rf1 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 Sh3rf1 purchase	MBS1402086 is a recombinant protein targeting Sh3rf1. Also known as Recombinant Rat E3 ubiquitin-protein ligase SH3RF1 (Sh3rf1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Sh3rf1. It may not necessarily be applicable to this product.

NCBI GI #	38454266
NCBI GeneID	306417
NCBI Accession #	NP_942059.1
UniProt Primary Accession #	Q71F54
UniProt Related Accession #	Q71F54
GenBank Nucleotide #	NM_198764.1

NCBI Official Full Name	E3 ubiquitin-protein ligase SH3RF1
NCBI Official Synonym Full Names	SH3 domain containing ring finger 1
NCBI Official Symbol	Sh3rf1
NCBI Official Synonym Symbols	Posh; Sh3md2
UniProt Protein Name	E3 ubiquitin-protein ligase SH3RF1
UniProt Synonym Protein Names	Plenty of SH3s; Protein POSH; RING-type E3 ubiquitin transferase SH3RF1Curated; SH3 domain-containing RING finger protein 1; SH3 multiple domains protein 2
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	Sh3rf1
UniProt Synonym Gene Names	Posh; Sh3md2; Protein POSH
NCBI Protein Information	E3 ubiquitin-protein ligase SH3RF1
NCBI Summary for Sh3rf1	putative scaffolding protein; involved in Rac-induced signal transduction pathways [RGD, Feb 2006]
UniProt Comments for Sh3rf1	Acts as a scaffold protein, contributes to Rac-induced signal transduction such as JNKs (MAPK8 and MAPK9) activation and induces apoptosis. Within a signaling complex, it probably recruits protein kinases such as MAP3K10 or MAP3K11 which are in turn activated leading to the sequential activation of MAP2K4, MAP2K7, MAP2K7 and JNKs (MAPK8 and MAPK9). In neuronal cells, it induces apoptosis.
Research Articles on Sh3rf1	**1.** a model in which Sh3rf2 promotes proteasomal degradation of pro-apoptotic POSH in healthy cells and in which apoptotic stimuli lead to rapid loss of Sh3rf2 expression, and consequently to stabilization of POSH and JNK activation and cell death
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