Spectrin Beta Chain, Brain 1 (SPTBN1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Spectrin beta chain, brain 1 (Sptbn1), Recombinant Protein
Full Product Name	Recombinant Mouse Spectrin beta chain, brain 1 (Sptbn1) , partial
Product Gene Name	Sptbn1 recombinant protein
Product Synonym Gene Name	Sptbn1
Sequence	MEGFLNRKHE WEAHNKKASS RSWHNVYCVI NNQEMGFYKD AKSAASGIPY HSEVPVSLKE AICEVALDYK KKKHVFKLRL SDGNEYLFQA KDDEEMNTWI QAISSA
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	251,156 Da
Sequence Positions	2199-2304aa; Partial
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 Q62261
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Sptbn1 recombinant protein	Spectrin is an actin crosslinking and molecular scaffold protein that links the plasma membrane to the actin cytoskeleton, and functions in the determination of cell shape, arrangement of transmembrane proteins, and organization of organelles. It is composed of two antiparallel dimers of alpha- and beta- subunits. This gene is one member of a family of beta-spectrin genes. The encoded protein contains an N-terminal actin-binding domain, and 17 spectrin repeats which are involved in dimer formation. Multiple transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of Sptbn1 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 Sptbn1 purchase	MBS1425978 is a recombinant protein targeting Sptbn1. Also known as Recombinant Mouse Spectrin beta chain, brain 1 (Sptbn1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Sptbn1. It may not necessarily be applicable to this product.

NCBI GI #	117938334
NCBI GeneID	20742
NCBI Accession #	NP_033286.2

UniProt Primary Accession #	Q62261
UniProt Secondary Accession #	Q3TEM7; Q5SQL8; Q5SQL9; Q9QWJ7; A2AFU1
UniProt Related Accession #	Q62261
GenBank Nucleotide #	NM_009260.2
NCBI Official Full Name	spectrin beta chain, non-erythrocytic 1 isoform 2
NCBI Official Synonym Full Names	spectrin beta, non-erythrocytic 1
NCBI Official Symbol	Sptbn1
NCBI Official Synonym Symbols	elf1; elf3; SPTB2; Spnb2; Spnb-2; AL033301; mKIAA4049; 9930031C03Rik
UniProt Protein Name	Spectrin beta chain, non-erythrocytic 1
UniProt Synonym Protein Names	Beta-II spectrin; Embryonic liver fodrin; Fodrin beta chain
Protein Family	Spectrin
UniProt Gene Name	Sptbn1
UniProt Synonym Gene Names	Elf; Spnb-2; Spnb2; Sptb2
NCBI Protein Information	spectrin beta chain, non-erythrocytic 1
UniProt Comments for Sptbn1	Fodrin, which seems to be involved in secretion, interacts with calmodulin in a calcium-dependent manner and is thus candidate for the calcium-dependent movement of the cytoskeleton at the membrane.
Research Articles on Sptbn1	**1.** required for proper development of the heart
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