Spectrin Beta Chain, Brain 2 (SPTBN2) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Spectrin beta chain, brain 2 (Sptbn2), Recombinant Protein
Full Product Name	Recombinant Rat Spectrin beta chain, brain 2 (Sptbn2) , partial
Product Gene Name	Sptbn2 recombinant protein
Product Synonym Gene Name	Sptbn2
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	271,064 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 Q9QWN8
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Sptbn2 recombinant protein	Spectrins are principle components of a cell s membrane-cytoskeleton and are composed of two alpha and two beta spectrin subunits. This protein (SPTBN2), is called spectrin beta non-erythrocytic 2 or beta-III spectrin. It is related to, but distinct from, the beta-II spectrin gene which is also known as spectrin beta non-erythrocytic 1 (SPTBN1). SPTBN2 regulates the glutamate signaling pathway by stabilizing the glutamate transporter EAAT4 at the surface of the plasma membrane. Mutations in this gene cause a form of spinocerebellar ataxia, SCA5, that is characterized by neurodegeneration, progressive locomotor incoordination, dysarthria, and uncoordinated eye movements.
Other Notes	Small volumes of Sptbn2 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 Sptbn2 purchase	MBS1376157 is a recombinant protein targeting Sptbn2. Also known as Recombinant Rat Spectrin beta chain, brain 2 (Sptbn2) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Sptbn2. It may not necessarily be applicable to this product.

NCBI GI #	17367415
NCBI GeneID	29211
NCBI Accession #	Q9QWN8.2
UniProt Primary Accession #	Q9QWN8
UniProt Secondary Accession #	O88197; Q9ES68

UniProt Related Accession #	Q9QWN8
NCBI Official Full Name	Spectrin beta chain, non-erythrocytic 2
NCBI Official Synonym Full Names	spectrin, beta, non-erythrocytic 2
NCBI Official Symbol	Sptbn2
NCBI Official Synonym Symbols	Spnb3
UniProt Protein Name	Spectrin beta chain, non-erythrocytic 2
UniProt Synonym Protein Names	Beta SpIII sigma 1; Beta-III spectrin; Glutamate transporter EAAT4-associated protein 41; SPNB-3; Spectrin-like protein GTRAP41
Protein Family	Spectrin
UniProt Gene Name	Sptbn2
UniProt Synonym Gene Names	Spnb3
NCBI Protein Information	spectrin beta chain, non-erythrocytic 2
NCBI Summary for Sptbn2	may modulate the structural integrity of the Golgi apparatus; binds preferentially to Arp1 rather than actin to mediate the direct interaction of dynein and dynactin with vesicles [RGD, Feb 2006]
UniProt Comments for Sptbn2	Probably plays an important role in neuronal membrane skeleton.
Research Articles on Sptbn2	**1.** Results revealed that betaII-spectrin was degraded into major fragments of 110/85 kDa by calpain-2 activation and 108/80 kDa by caspase-3 activation.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/spectrin-beta-chain-brain-2-sptbn2/1376157