Disrupted in Schizophrenia 1 Homolog (DISC1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Disrupted in schizophrenia 1 homolog (Disc1), Recombinant Protein
Full Product Name	Recombinant Mouse Disrupted in schizophrenia 1 homolog (Disc1) , partial
Product Gene Name	Disc1 recombinant protein
Product Synonym Gene Name	Disc1
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	41,115 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 Q811T9
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Disc1 recombinant protein	This gene encodes a protein with multiple coiled coil motifs which is located in the nucleus, cytoplasm and mitochondria. The protein is involved in neurite outgrowth and cortical development through its interaction with other proteins. This gene is disrupted in a t(1;11)(q42.1;q14.3) translocation which segregates with schizophrenia and related psychiatric disorders in a large Scottish family. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Other Notes	Small volumes of Disc1 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 Disc1 purchase	MBS1479413 is a recombinant protein targeting Disc1. Also known as Recombinant Mouse Disrupted in schizophrenia 1 homolog (Disc1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Disc1. It may not necessarily be applicable to this product.

NCBI GI #	119874423
NCBI GeneID	244667
NCBI Accession #	NP_777278.2
UniProt Primary Accession #	Q811T9
UniProt Secondary Accession #	Q7TQ21; Q8CF87; Q8CF88; Q8CHP1; Q8CHP2
UniProt Related Accession #	Q811T9

GenBank Nucleotide #	NM_174853.2
NCBI Official Full Name	disrupted in schizophrenia 1 homolog isoform 2
NCBI Official Synonym Full Names	disrupted in schizophrenia 1
NCBI Official Symbol	Disc1
UniProt Protein Name	Disrupted in schizophrenia 1 homolog
Protein Family	Disrupted in schizophrenia
UniProt Gene Name	Disc1
NCBI Protein Information	disrupted in schizophrenia 1 homolog
UniProt Comments for Disc1	Involved in the regulation of multiple aspects of embryonic and adult neurogenesis. Required for neural progenitor proliferation in the ventrical/subventrical zone during embryonic brain development and in the adult dentate gyrus of the hippocampus. Participates in the Wnt-mediated neural progenitor proliferation as a positive regulator by modulating GSK3B activity and CTNNB1 abundance. Plays a role as a modulator of the AKT-mTOR signaling pathway controlling the tempo of the process of newborn neurons integration during adult neurogenesis, including neuron positioning, dendritic development and synapse formation. Inhibits the activation of AKT-mTOR signaling upon interaction with CCDC88A. Regulates the migration of early-born granule cell precursors toward the dentate gyrus during the hippocampal development. Plays a role, together with PCNT, in the microtubule network formation.
Research Articles on Disc1	**1.** Mutant DISC1 revealed increased spontaneous firing of Purkinje cells and impaired cognitive and social behaviors.
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.
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