Harmonin (USH1C) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Harmonin (Ush1c), Recombinant Protein
Full Product Name	Recombinant Mouse Harmonin (Ush1c) , partial
Product Gene Name	Ush1c recombinant protein
Product Synonym Gene Name	Ush1c
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	68,185 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 Q9ES64
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Ush1c recombinant protein	This gene encodes a scaffold protein that functions in the assembly of Usher protein complexes. The protein contains PDZ domains, a coiled-coil region with a bipartite nuclear localization signal and a PEST degradation sequence. Defects in this gene are the cause of Usher syndrome type 1C and non-syndromic sensorineural deafness autosomal recessive type 18. Multiple transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of Ush1c 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 Ush1c purchase	MBS1336573 is a recombinant protein targeting Ush1c. Also known as Recombinant Mouse Harmonin (Ush1c) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Ush1c. It may not necessarily be applicable to this product.

NCBI GI #	254911005
NCBI GeneID	72088
NCBI Accession #	NP_001157205.1
UniProt Primary Accession #	Q9ES64
UniProt Secondary Accession #	Q91XD1; Q9CVG7; Q9ES65
UniProt Related Accession #	Q9ES64

GenBank Nucleotide #	NM_001163733.1
NCBI Official Full Name	harmonin isoform b4
NCBI Official Synonym Full Names	USH1 protein network component harmonin
NCBI Official Symbol	Ush1c
NCBI Official Synonym Symbols	harmonin; 2010016F01Rik
UniProt Protein Name	Harmonin
UniProt Synonym Protein Names	PDZ domain-containing protein; Usher syndrome type-1C protein homolog
Protein Family	Harmonin
UniProt Gene Name	Ush1c
NCBI Protein Information	harmonin
UniProt Comments for Ush1c	Anchoring/scaffolding protein that is a part of the functional network formed by USH1C, USH1G, CDH23 and MYO7A that mediates mechanotransduction in cochlear hair cells. Required for normal development and maintenance of cochlear hair cell bundles (PubMed:19447093). As part of the intermicrovillar adhesion complex/IMAC plays a role in brush border differentiation, controlling microvilli organization and length. Probably plays a central regulatory role in the assembly of the complex, recruiting CDHR2, CDHR5 and MYO7B to the microvilli tips (PubMed:24725409, PubMed:26812018).
Research Articles on Ush1c	**1.** Harmonin enhances voltage-dependent facilitation of Cav1.3 channels and synchronous exocytosis in mouse inner hair cells.
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