Cochlin (COCH) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cochlin (Coch), Recombinant Protein
Full Product Name	Recombinant Mouse Cochlin (Coch)
Product Gene Name	Coch recombinant protein
Product Synonym Gene Name	Coch
Sequence	EGAVPIPVTC FTRGLDIRKE KADVLCPGGC SLEEFSVFGN IVYASVSSIC GAAVHRGVIG TSGGPVRVYS LPGRENYSSV DANGIQSQML SRWSASFAVT KGKSSTQEAT GRAVSTAHPP SGKRLKKTPE KKTGNKDCKA DIAFLIDGSF NIGQRRFNLQ KNFVGKVALM LGIGTEGPHV GLVQASEHPK IEFYLKNFTS AKDVLFAIKE VGFRGGNSNT GKALKHTAQK FFTADTGVRK GIPKVVVVFI DGWPSDDIEE AGIVAREFGV NVFIVSVAKP IPEELGMVQD VAFVDKAVCR NNGFFSYHMP NWFGTTKYVK PLVQKLCTHE QMMCSKTCYN SVNIAFLIDG SSSVGDSNFR LMLEFVSNIA KTFEISDIGA KIAAVQFTYD QRTEFSFTDY NTKENVLAVL ANIRYMSGGT ATGDAIAFTV RNVFGPIRDS PNKNFLVIVT DGQSYDDVRG PAAAAHDAGI TIFSVGVAWA PLDDLRDMAS KPKESHAFFT REFTGLEPIV SDVIRGICRD FLESQQ
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	59,950 Da
Sequence Positions	27-552, Full length protein
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 Q62507
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Coch recombinant protein	This protein is highly conserved in human, mouse, and chicken, showing 94% and 79% amino acid identity of human to mouse and chicken sequences, respectively. Hybridization to this gene was detected in spindle-shaped cells located along nerve fibers between the auditory ganglion and sensory epithelium. These cells accompany neurites at the habenula perforata, the opening through which neurites extend to innervate hair cells. This and the pattern of expression of this gene in chicken inner ear paralleled the histologic findings of acidophilic deposits, consistent with mucopolysaccharide ground substance, in temporal bones from DFNA9 (autosomal dominant nonsyndromic sensorineural deafness 9) patients. Mutations that cause DFNA9 have been reported in this gene. Alternative splicing results in multiple transcript variants encoding the same protein. Additional splice variants encoding distinct isoforms have been described but their biological validities have not been demonstrated.
Other Notes	Small volumes of Coch 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 Coch purchase	MBS1355996 is a recombinant protein targeting Coch. Also known as Recombinant Mouse Cochlin (Coch). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

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

NCBI GI #	311771523
NCBI GeneID	12810
NCBI Accession #	NP_001185764.1
UniProt Primary Accession #	Q62507
UniProt Secondary Accession #	Q3TAF5; Q9QWK6
UniProt Related Accession #	Q62507
GenBank Nucleotide #	NM_001198835.1
NCBI Official Full Name	cochlin
NCBI Official Synonym Full Names	cochlin
NCBI Official Symbol	Coch
NCBI Official Synonym Symbols	AW122937; Coch-5B2; D12H14S564E
UniProt Protein Name	Cochlin
UniProt Synonym Protein Names	COCH-5B2
Protein Family	Cochlin
UniProt Gene Name	Coch
NCBI Protein Information	cochlin
UniProt Comments for Coch	Plays a role in the control of cell shape and motility in the trabecular meshwork.
Research Articles on Coch	**1.** accumulation of acellular deposits in the incudomalleal and incudostapedial joints in Coch (G88E/G88E) mice similar to those found in human DFNA9-affected temporal bones
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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