



# Recombinant Human Cochlin (COCH)

<b>Product Code</b>	CSB-EP005703HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O43405
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>EGAAPI AITCFTRGLD IRKEKADVLC PGGCPLEEFVS VYGNIVYASV  SSICGAAVHR GVISNSGGPV RVYSLPGREN YSSVDANGIQ SQMLSRWSAS  FTVTKGKSST QEATGQAVST AHPPTGKRLK KTPEKKTGNK DCKADIAFLI  DGSFNIGQRR FNLQKNFVGK VALMLGIGTE GPHVGLVQAS EHPKIEFYLK  NFTSAKDVLV AIKEVGFRRG NSNTGKALKH TAQKFFTVDA GVRKGIPKVV  VVFIDGWPSD DIEEAGIVAR EFGVNVFIVS VAKPIPEELG MVQDVTFVDK  AVCRNNGFFS YHMPNWFMTT KYVKPLVQKL CTHEQMMCSK TCYNSVNIAF  LIDGSSSVGD SNFRLMLEFV SNIAKTFEIS DIGAKIAAVQ FTYDQRTEFS  FTDYSTKENV LAVIRNIRYM SGGTATGDAI SFTVRNVFGP IRESPNKNFL  VIVTDGQSYD DVQGPAAAAH DAGITIFSVG VAWAPLDDLK DMASKPKESH  AFFTREFTGL EPIVSDVIRG ICRDFLESQQ</p>
<b>Source</b>	E.coli
<b>Target Names</b>	COCH
<b>Protein Names</b>	Recommended name: Cochlin Alternative name(s): COCH-5B2
<b>Expression Region</b>	25-550
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	<p>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.</p>
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the



contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.