

Active Recombinant Human Cochlin Protein, His tagged

Cat. No. COCH-13HFL Lot. No. (See product label)

SPECIFICATION

Product Overview Active Recombinant Human Cochlin Protein (Glu25-Gln550) with an N-terminal 6-His tag was expressed in Mouse myeloma cell line.

Species Human

Source Mammalian Cells

ProteinLength 25-550 aa

Description

The protein encoded by this gene 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.

Molecular Mass 58 kDa

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| N-terminal Sequence Analysis | His |
| Bio-Activity | Measured by the ability of the immobilized protein to support the adhesion of SW1353 human chondrosarcoma cells. When 5×10^4 cells per well are added to rhCochlin coated plates (10 µg/mL, 100 µL/well) approximately 70-90 % will adhere after 60 minutes at 37 centigrade. |
| Endotoxin | < 0.1 EU/µg by LAL. |
| Purity | > 90 % by SDS-PAGE under reducing conditions and visualized by silver stain. |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution. |
| Storage Buffer | Lyophilized from a 0.2 µm filtered solution in PBS. |
| Reconstitution | Reconstitute at 100 µg/mL in PBS. |
| Shipping | The product is shipped at ambient temperature. |
| Reference | <ol style="list-style-type: none"> 1. Aggarwal, S. and A.L. Gurney (2002) J. Leukoc. Biol. 71:1. 2. Moseley, T.A. et al. (2003) Cytokine & Growth Factor Rev. 14:155. 3. Hymowitz, S.G. et al. (2001) EMBO J. 20:5332. |

GENE INFORMATION

Gene Name [COCH cochlin \[Homo sapiens \(human\) \]](#)

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|------------------------|--|
| Official Symbol | COCH |
| Synonyms | COCH; coagulation factor C homolog, cochlin (Limulus polyphemus); coagulation factor C (Limulus polyphemus homolog); cochlin, DFNA9, DFNA31; cochlin; COCH 5B2; DFNA9; COCH5B2; COCH-5B2 |
| Gene ID | 1690 |
| mRNA Refseq | NM_001135058 |
| Protein Refseq | NP_001128530 |
| MIM | 603196 |
| UniProt ID | O43405 |

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