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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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	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)]

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA