

Recombinant Human CHAD, His-tagged

Cat. No. CHAD-67H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human Chondroadherin/CHAD is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Cys23-His359) of Human CHAD fused with a polyhistidine tag at the C-terminus.

Species Human

Source HEK293

ProteinLength 23-359 a.a.

Description Chondroadherin is a secreted protein that belongs to the small leucine-rich proteoglycan (SLRP) family of SLRP class IV subfamily. Chondroadherin contains one LRRCT domain, one LRRNT domain, and nine LRR (leucine-rich) repeats. It presents in chondrocytes at all ages. Chondroadherin is initially found as a 36-kD matrix protein isolated from bovine cartilage. It is shown to mediate chondrocyte-matrix interactions. Chondroadherin promotes attachment of chondrocytes, fibroblasts, and osteoblasts. This binding is mediated (at least for chondrocytes and fibroblasts) by the integrin $\alpha 2\beta 1$. Chondroadherin may play an important role in the regulation of chondrocyte growth and proliferation.

AA Sequence CPQNCHCHSDLQHVICDKVGLQKIPKVSEKTKLLNLQRNFPVLAANSFRAMPNLVSLHLQHCQIREVAAGAFRGLKQLIYLYLSHNDIRVLRAGAFDDLTELTYLYLDHNVTE LPRGLLSPLVNLFILQLNNNKIRELRAGAFQGAKDLRWLYLSENALSSLQPGALDDVENLAKFHVDRNQLSSYPSAALSKLRVVEELKLSHNPLKSIPDNAFQSFGRYLETLWL

 Tel: 1-631-559-9269 1-516-512-3133

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DNTNLEKFSDGAFGLGVTTTLKHVHLENNRLNQ LPSNFPFDSLETLALTNNPWKCTCQ
 LRGLRRWLEAKASRPDATCASPAKFKGQHIRDTDAFRSCK FPTKRSKKAGRHVDH
 HHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

GENE INFORMATION

Gene Name [CHAD chondroadherin \[Homo sapiens \]](#)

Official Symbol CHAD

Synonyms CHAD; chondroadherin; chondroadherin proteoglycan; SLRR4A; cartilage leucine-rich protein;

Gene ID [1101](#)

mRNA Refseq [NM_001267](#)

Protein Refseq [NP_001258](#)

MIM [602178](#)

UniProt ID [O15335](#)

Chromosome Location 17q21.33

Pathway ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction,

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conserved biosystem; Focal Adhesion, organism-specific biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem;

Function

extracellular matrix structural constituent;

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