

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	CPQNCHCHSDLQHVICDKVGLQKIPKVSEKTKLLNLQRNNFPVLAANSFRAMPNLVS LHLQHCQI REVAAGAFRGLKQLIYLYLSHNDIRVLRAGAFDDLTELTYLYLDHNVTE LPRGLLSPLVNLFIL QLNNNKIRELRAGAFQGAKDLRWLYLSENALSSLQPGALDDV ENLAKFHVDRNQLSSYPSAALSK LRVVEELKLSHNPLKSIPDNAFQSFGRYLETWL

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DNTNLEKFSDGAFLGVTTLKHVHLENNRLNQ LPSNFPFDSLETLALTNNPWKCTCQ
LRGLRRWLEAKASRPDATCASPAKFKGQHIRTDAFRSCK 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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