

Recombinant Human cartilage associated protein, His-tagged

Cat. No. CRTAP-451H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CRTAP, 27- 401aa, Human, His tag, E.coli
Species	Human
Source	E.coli
Description	Cartilage-associated protein precursor, also known as CRTAP, is a secreted protein localizing to the extracellular space that plays a role in collagen post-translational modifications, extracellular fibril assembly and intracellular trafficking. CRTAP is widely expressed with predominant expression in articular chondrocytes. Mutations in the gene encoding CRTAP can lead to autosomal recessive osteogenesis imperfecta (OI) type 7 and type 2B. OI, also known as brittle bone disease, is characterized by bone fragility and susceptibility to fractures. Recombinant human CRTAP protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	46.4 kDa (398aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSQYERYSF RSFPRDELMP LESAYRHALD KYSGEHWAES VGYLEISLRL HRLLRDSEAF CHRNCSAAPQ PEPAAGLASV PELRLFGGLL RRAHCLKRCK QGLPAFRQSQ PSREVLADFQ RREPDKFLQF AYFKANNLPK AIAAAHTFLL KHPDDEMMKR NMAYYKSLPG AEDYIKDLET KSYESLFIRA VRAYNGENWR TSITDMELAL PDFFKAFYEC LAACEGSREI KDFKDFYLSI ADHYVEVLEC KIQCEENLTP VIGGYPVEKF VATMYHYLQF

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AYYKLNDLKN AAPCAVSYLL FDQNDKVMQQ NLVYYQYHRD TWGLSDEHFQ
PRPEAVQFFN VTTLQKELYD FAKENIMDDD EGEVVEYVDD LLELEETS

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name CRTAP cartilage associated protein [Homo sapiens]

Official Symbol CRTAP

Synonyms CRTAP; cartilage associated protein; cartilage-associated protein; CASP; leprecan like 3; LEPREL3; leprecan-like 3; OI7;

Gene ID 10491

mRNA Refseq NM_006371

Protein Refseq NP_006362

MIM 605497

UniProt ID O75718

Chromosome Location 3p22

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Function

binding;

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