

# Recombinant Human cartilage associated protein, His-tagged

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

## SPECIFICATION

<b>Product Overview</b>	CRTAP, 27- 401aa, Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>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.</p>
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
<b>Molecular Mass</b>	46.4 kDa (398aa)
<b>AA Sequence</b>	<p>MGSSHHHHHH SSGLVPRGSH MGSQYERYSF RSFPRDELMP LESAYRHALD          KYSGEHWAES VGYLEISLRL HRLLRDSEAF CHRNCSAAPQ PEPAAGLASV          PELRLFGLL RRAHCLKRCK QGLPAFRQSQ PSREVLADFQ RREPDKFLQF          AYFKANNLPK AIAAAHTFLL KHPDDEMMKR NMAYYKSLPG AEDYIKDLET          KSYESLFIRA VRAYNGENWR TSITDMELAL PDFFKAFYEC LAACEGSREI          KDFKDFYLSI ADHYVEVLEC KIQCEENLTP VIGGYPVEKF VATMYHYLQF</p>

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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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