

**CRTAP, 27- 401aa, Human, His tag, E.coli**

**Cat.NO.: TP01721**

3th Edition

**Synonyms:**Cartilage-associated protein precursor , CASP, LEPREL3, OI7

**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 Weight:**46.4 kDa (398aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSQYERYSFRRSFPDELMPLESAYRHALDKYSGEHWAESVGYLEISLRLHRL  
RDSEAFCHRNC SAAPQPEPAAGLASYPELRLFGLLRRAHCLKRCKQGLPAFRQSQPSREVLADFQRREPYPKFLQ  
FAYFKANNLPKAIAAAHTFLLKHPDDEMMKRNMAYYKSLPGAEDYIKDLETKSYESLFIRAVRAYNGENWRITSITDM  
ELALPDFFKAFYECLAACEGSREIKDFKDFYLSIADHYVEVLECKIQCEENLTPVIGGYPVEK FVATMYHYLQFAYYK  
LNDLKNAAPCAVSYLLFDQNDKVMQQNLVYYQYHRDTWGLSDEHFQPRPEAVQFFNVTTLQKELYDFAKENIMDD  
DEGEVVEYVDDLLELEETS

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

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