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Recombinant human CRTAP protein

Catalog Number: ATGP2548

PRODUCT INFORMATION

Expression system
E.coli

Domain
27-401aa

UniProt No.
O75718

NCBI Accession No.
NP_006362

Alternative Names
Cartilage-associated protein precursor, Cartilage-associated protein precursor, CASP, LEPREL3, OI7

PRODUCT SPECIFICATION

Molecular Weight
46.4 kDa (398aa)

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE, Denatured

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

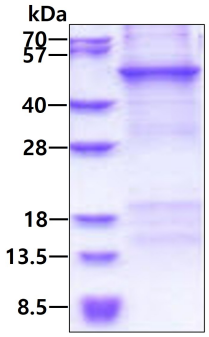
<MGSSHHHHHH SSGLVPRGSH MGS>QYERYSF RSFPRDELMP LESAYRHALD KYSGEHWAES VGYLEISLRL HRLLRDSEAF CHRNCSAAPQ PEPAAGLASY PELRLFGGLL RRAHCLKRCK QGLPAFRQSQ PSREVLADFQ RREPYKFLQF AYFKANNLPK AIAAAHTFLL KHPDDEMMKR NMAYYKSLPG AEDYIKDLET KSYESLFIRA VRAYNGENWR TSITDMELAL PDFFKAFYEC LAACEGSREI KDFKDFYLSI ADHYVEVLEC KIQCEENLTP VIGGYPVEKF VATMYHYLQF AYYKLNDLKN AAPCAVSYLL FDQNDKVMQQ NLVYYQYHRD TWGLSDEHFQ PRPEAVQFFN VTTLQKELYD FAKENIMDDD EGEVVEYVDD LLELEETS

General References

Tonachini L., et al. (1999) Cytogenet Cell Genet. 87: 191-194.
Castagnola P., et al. (1997) J Cell Sci. 110: 1351-1359.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.