

Recombinant human Cystatin E/M protein

Catalog Number: ATGP3263

PRODUCT INFORMATION

Expression system

E.coli

Domain

29-149aa

UniProt No.

Q15828

NCBI Accession No.

NP_001314.1

Alternative Names

Cystatin-M, Cystatin E/M

PRODUCT SPECIFICATION

Molecular Weight

15.9 kDa (142aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl.

Purity

> 90% by SDS-PAGE

Biological Activity

The IC50 value is < 20nM. The inhibitory function of Cystatin 6 on protease activity of papain was measured by a fluorometric assay using Z-FR-AMC at pH 7.5 at 25C.

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

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

CST6 is a member of the type 2 cystatin family. Some of the members are active cysteine protease inhibitors, while cystatin E/M moderate the inhibition of cathepsin B but is not active against cathepsin C. CST6 is secretable proteins that influence osteogenesis and bone resorption, regulation of the insulin and hepatocyte

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growth factor receptors, and the response to systemic inflammation. Recombinant human CST6 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

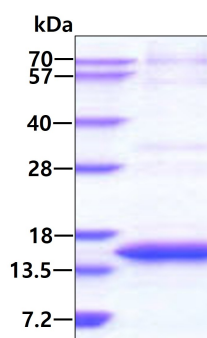
<MGSSHHHHH SSGLVPRGSH M>RPQERMVGE LRDLSRDDPQ VQKAAQAAVA SYNMGNSIY YFRDTHIIKA
QSQLVAGIKY FLTMEMGSTD CRKTRVTGDH VDLTTCPLAA GAQQEKLRCDFEVLVVPWQN SSQLLKHNCV QM

General References

Ni J., et al. (1997) J Biol Chem. 272(16):10853-8.
Saitoh E., et al. (1988) Biol Chem Hoppe Seyler. 369:191-7.

DATA

SDS-PAGE



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