Active Recombinant Human CST6 protein, His-tagged

Cat. No. CST6-205H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CST6 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
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 growth factor receptors, and the response to systemic inflammation.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl.
Bio-activity	The IC50 value is < 10nM. 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.
Molecular Mass	15.9 kDa (142aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MRPQERMVGE LRDLSPDDPQ VQKAAQAAVA SYNMGSNSIY YFRDTHIIKA QSQLVAGIKY FLTMEMGSTD CRKTRVTGDH VDLTTCPLAA GAQQEKLRCD FEVLVVPWQN SSQLLKHNCV QM

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Purity	> 90% by SDS - PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	CST6 cystatin E/M [Homo sapiens]
Official Symbol	CST6
Synonyms	CST6; cystatin E/M; cystatin-M; cystatin 6; cystatin M; cystatin-6; cystatin-E; cystatin M/E; cysteine proteinase inhibitor;
Gene ID	1474
mRNA Refseq	NM_001323
Protein Refseq	NP_001314
MIM	601891
UniProt ID	Q15828
Chromosome Location	11q13
Function	cysteine-type endopeptidase inhibitor activity; peptidase inhibitor activity;

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