

Recombinant Human CST5, His-tagged

Cat. No. CST5-102H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CST5, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	CST5, also known as Cystatin-D, is a novel member of the cystatin superfamily. The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and the kininogens. The type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in a variety of human fluids and secretions. Two alleles of the cystatin D gene (CST5), encoding protein variants with either Cys or Arg as residue 26 in their 122-residue polypeptide chains, are present in the population.
Form	Liquid. In phosphate buffered saline (pH7.4) containing 10% glycerol.
Molecular Mass	14.36kDa (123aa)(13.5-18kDa in SDS-PAGE under reducing conditions.)
AA Sequence	QSRTLGGIHTDLNDKSVQ RALDFAISEY NKVINKDEYY SRPLQVMAAY QQIVGGVNYF FNVKFGRTTC TKSQPNLDNC PFNDQPKLKEEEFCSFQINE VPWEDKISIL NYKCRKVHHH HHH

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Endotoxin	< 1.0 eu per 1 microgram of protein (determined by lal)
Purity	>90% 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	0.5mg/ml (determined by absorbance at 280nm)

GENE INFORMATION

Gene Name	CST5 cystatin D [Homo sapiens]
Official Symbol	CST5
Synonyms	CST5; cystatin D; cystatin-D; cystatin 5; cystatin-5; cysteine-proteinase inhibitor; MGC71922;
Gene ID	1473
mRNA Refseq	NM_001900
Protein Refseq	NP_001891
MIM	123858
UniProt ID	P28325
Chromosome Location	20p11.21
Pathway	Endochondral Ossification, organism-specific biosystem; Salivary secretion,

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organism-specific biosystem; Salivary secretion, conserved biosystem;

Function

cysteine-type endopeptidase inhibitor activity; peptidase inhibitor activity; protein binding;

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