

Recombinant Human Cystatin B (Stefin B), His-tagged

Cat. No. CSTB-299H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant CSTB, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography techniques (118 aa, 13kDa).
Species	Human
Source	E.coli
Description	CSTB, also known as Cystatin B is an anti-protease implicated in myoclonus epilepsy, a degenerative disease of the central nervous system. 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. This protein is able to form a dimer stabilized by noncovalent forces and is thought to play a role in protecting against the proteases leaking from lysosomes. In cells, CSTB is located in the lysosomes and the cytoplasm, but also in the nucleus.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 50 mM NaCl.
Molecular Weight	13 kDa (118 aa).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Endotoxin Level	< 1.0 EU per 1 µg of protein (determined by LAL method).

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Sequence MGSSHHHHHH SSGLVPRGSH MMCGAPSATQ PATAETQHIA DQVRSQLEEK
ENKKFPVFKA VSFKSQVVAG TNYFIKVHVG DEDFVHLRVF QSLPHENKPL
TLSNYQTNKA KHDELTYF

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.

GENE INFORMATION

Gene Name CSTB

Synonyms CSTB; cystatin B (stefin B); PME; CST6; EPM1; STFB; CPI-B; Stefin-B; cystatin B; stefin B; cystatin B (stefin B); Liver thiol proteinase inhibitor; cystatin B (liver thiol proteinase inhibitor).

Gene ID 1476

mRNA Refseq NM_000100.2

Protein Refseq NP_000091.1

MIM 601145

UniProt ID P04080

Chromosome Location 21q22.3

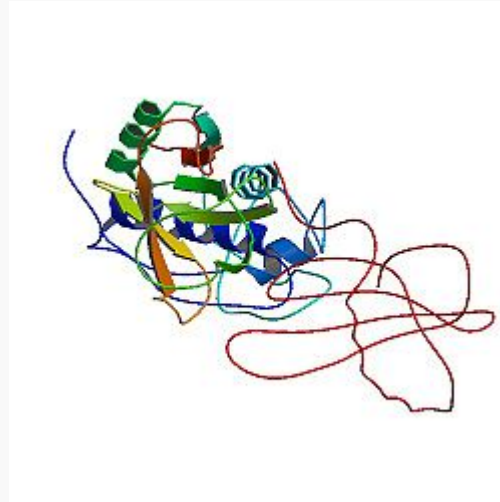
Function cysteine-type endopeptidase inhibitor activity; protease binding; protein binding.

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**PDBrendering based
on 1stf.Available
structures:1stf,2oct.**



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