

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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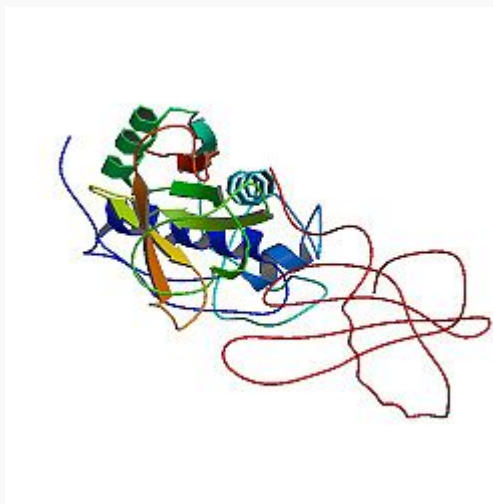
Sequence	MGSSHHHHHH SSGLVPRGSH MMCGAPSATQ PATAETQHIA DQVRSQLEEK ENKKFPVFKA VSFKSQVVAG TNYFIKVHVG DEDFVHLRVF QSLPHENKPL TLSNYQTNKA KHDELTYP
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE 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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