

## Recombinant Human CSTB, His-tagged

**Cat. No.** CSTB-31464TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length human Stefin B, fused to His tag; 118 amino acids, 13 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>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 kininogens. This gene encodes a stefin that functions as an intracellular thiol protease inhibitor. The protein is able to form a dimer stabilized by noncovalent forces, inhibiting papain and cathepsins I, h and b. The protein is thought to play a role in protecting against the proteases leaking from lysosomes. Evidence indicates that mutations in this gene are responsible for the primary defects in patients with progressive myoclonic epilepsy (EPM1).</p>
<b>Conjugation</b>	HIS
<b>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 50mM Sodium chloride, 20mM Tris, pH 8.0

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<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	MGSSHHHHHH SSGLVPRGSH MMCGAPSATQ PATAETQHIA DQVRSQLEEK ENKKFPVFKA VSFKSQVVAG TNYFIKVHVG DEDFVHLRVF QSLPHENKPL TLSNYQTNKA KHDELTYF
<b>Sequence Similarities</b>	Belongs to the cystatin family.
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	CSTB cystatin B (stefin B) [ Homo sapiens ]
<b>Official Symbol</b>	CSTB
<b>Synonyms</b>	CSTB; cystatin B (stefin B); EPM1, STFB; cystatin-B; CST6; PME;
<b>Gene ID</b>	1476
<b>mRNA Refseq</b>	NM_000100
<b>Protein Refseq</b>	NP_000091
<b>MIM</b>	601145
<b>Uniprot ID</b>	P04080
<b>Chromosome Location</b>	21q22.3

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**Function**

cysteine-type endopeptidase inhibitor activity; endopeptidase inhibitor activity;  
protease binding;

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