

Recombinant Human CSTB, GST-tagged

Cat. No. CSTB-11649H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CSTB protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-98a.a.
Description	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).
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name	CSTB cystatin B (stefin B) [Homo sapiens]
Official Symbol	CSTB
Synonyms	CSTB; cystatin B (stefin B); EPM1, STFB; cystatin-B; CST6; PME; CPI-B; liver thiol proteinase inhibitor; ULD; EPM1; STFB; EPM1A;
Gene ID	1476
mRNA Refseq	NM_000100
Protein Refseq	NP_000091
MIM	601145
UniProt ID	P04080
Chromosome Location	21q22.3
Function	cysteine-type endopeptidase inhibitor activity; endopeptidase inhibitor activity; protease binding;

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