

Recombinant Human CSTB Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CSTB-2382H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CSTB MS Standard C13 and N15-labeled recombinant protein (NP_000091) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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). One type of mutation responsible for EPM1 is the expansion in the promoter region of this gene of a CCCCCCCCCGCG repeat from 2-3 copies to 30-78 copies.
Molecular Mass	11.1 kDa
AA Sequence	MMCGAPSATQPATAETQHIADQVRSQLEEKENKKFPVFKAVSFKSQVVAGTNYFIK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	VHVGDEDFVHLRVFQSLPHENKPLTLSNYQTNKAKHDELTYFTRTRPLEQKLISEED LAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	CSTB cystatin B [Homo sapiens (human)]
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

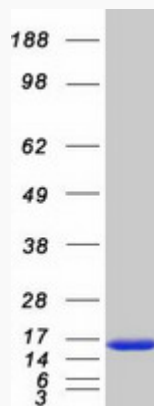
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UniProt ID

P04080

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