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# Recombinant human Cystatin B protein

Catalog Number: CTB0801

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

1-98aa

#### **UniProt No.**

P04080

#### **NCBI Accession No.**

NP 000091

#### **Alternative Names**

CystatinB, Cystatin B, CSTB, Stefin B, PME, CST6, CystatinB CHROW21, CPI B, CYTB, EPM1, Liver thiol proteinase inhibitor, STFB.

#### **PRODUCT SPECIFICATION**

# **Molecular Weight**

13 kDa (118aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50mM NaCl

#### **Purity**

> 95% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

# Tag

His-Tag

### **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **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



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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. Recombinant CSTB, fused to His-tag, was expressed in E. coli and purified by using conventional chromatography techniques.

#### **Amino acid Sequence**

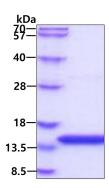
<MGSSHHHHHH SSGLVPRGSH> MMCGAPSATQ PATAETQHIA DQVRSQLEEK ENKKFPVFKA VSFKSQVVAG TNYFIKVHVG DEDFVHLRVF QSLPHENKPL TLSNYQTNKA KHDELTYF

#### **General References**

Turk V, et al (1991) FEBS Lett. 285 (2): 213-9. Jarvinen M, et al, (1988) Acta Histochem. 82 (1): 5-18

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

