

AR03002PU-N

Human Cystatin-B - Purified

Alternate names:

CPI-B, CST6, CSTB, Liver thiol proteinase inhibitor, STFB, Stefin-B

Quantity:

0.5 mg

Concentration:

1.0 mg/ml

Background:

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.

Uniprot ID:

[P04080](#)

NCBI:

[NP_000091.1](#)

GeneID:

[1476](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein by using conventional chromatography

Purity: >98% by SDS PAGE

Buffer System: 20mM Tris pH 8.0, 50mM NaCl

Endotoxin Level: < 1.0 EU per 1 microgram of protein (determined by LAL method)

Description:

Recombinant Human CSTB, fused to His-tag, was expressed in *E.coli*.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MMCGAPSATQ PATAETQHIA DQVRSQLEEK ENKKFPVFKA
VSFKSQVVAG TNYFIKVHVG DEDFVHLRVF QSLPHENKPL TLSNYQTNKA KHDELTYF

Molecular weight: 13 kDa 13 kDa (118 aa), confirmed by MALDI-TOF

Add. Information:

NCBI Accession No.: NP_000091

Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

1. Turk V, et al (1991) FEBS Lett. 285 (2): 213-9.

2. Jarvinen M, et al, (1988) Acta Histochem. 82 (1): 5-18.

Pictures:

15% SDS-PAGE (3 µg)

