

CSTB, 1-98aa, Human, His tag, E.coli (Bioactivity Validated)

Cat.NO.: TP01759

3th Edition

Synonyms:Cystatin-B, Stefin B, PME, CST6.

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 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.

Form:Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 50mM NaCl

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

Sequences:

MGSSHHHHHSSGLVPRGSHMMCGAPSATQPATAETQHIADQVRSQLEEKENKKFPVFKAVSFKSQVVAGTNYFI
KVHVGDEDFVHLRVFQSLPHENKPLTLSNYQTNKAKHDELTYF

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

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

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.