
Product Data Sheet

Product Name: CSTB Human, Active
 Cat. No.: GP26277
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Cystatin-B, Stefin-B, Liver thiol proteinase inhibitor, CPI-B, CSTB, CST6, EPM1, PME, STFB		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MMCGAPSATQ PATAETQHIA DQVRSQLEEK ENKKFPVFKA VSFKSQVVAG TNYFIKVHVG DEDFVHLRVF QSLPHENKPL TLSNYQTNKA KHDELTYF		
Formulation	The CSTB solution (1mg/1ml) contains 50mM NaCl and 20mM Tris-HCl buffer (pH 8.0).		

Introduction

Cystatin B or CSTB, is a protein (anti-protease) that is suspected to be involved in myoclonus epilepsy. As part of the encompasses proteins family, it has many cystatin-like sequences. Part of the cystatin superfamily are cysteine protease inhibitors; part don't have the ability. CSTB can create a dimer that is stable because of noncovalent bonds and has a crucial part in shielding from lysosomal proteases leaking. Cystatin B can be found in the lysosomes, nucleus & the cytoplasm in cells.

Biological Activity

The IC₅₀ value is < 3.0nM. The inhibitory function of Cystatin B on protease activity of papain was measured by a fluorometric assay using Z-FR-AMC at pH 7.5 at 25°C.

Stability

Store at 46yC if entire vial will be used within 2-4 weeks. Store, frozen at -206yC for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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CSTB Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 118 amino acids (1-98 a.a.) and having a molecular mass of 13kDa. CSTB is fused to a 20 amino acid His tag at N-Terminus and purified by proprietary chromatographic techniques.

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