
Product Data Sheet

Product Name: CST6 Human, Active

Cat. No.: GP26276

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Cystatin E/M, cystatin 6, Cystatin M, Cystatin-E, Cysteine proteinase inhibitor.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MRPQERMVGE LRDLSPPDPQ VQKAAQAAVA SYNMGSNSIY YFRDTHIIKA QSQLVAGIKY FLTMEMGSTD CRKTRVTGDH VDLTTCPALAA GAQQEKLRCDFEVLVVPWQN SSQLLKHNVCV QM		
Formulation	The CST6 solution (0.5mg/1ml) contains 10% glycerol, 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl and 1mM DTT.		

Introduction

Cystatin E/M or CST6 is part of the cystatin type 2 family. Part of the cystatin type 2 family members can act as cysteine protease inhibitors, whereas cystatin E/M regulates cathepsin B inhibitors and not cathepsin C. cystatin E/M is a protein the when secreted, has an effect on osteogenesis and bone resorption, insulin regulation, response to systemic inflammation & hepatocyte growth factor receptors.

Biological Activity

The IC₅₀ value is < 10nM. The inhibitory function of Cystatin 6 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 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C 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.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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CST6 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 142 amino acids (29-149 a.a.) and having a molecular mass of 15.9kDa. CST6 is fused to a 21 amino acid His tag at N-Terminus and purified by proprietary chromatographic techniques.

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