
Product Data Sheet

Product Name: CST6 Human
 Cat. No.: GP23260
 Batch No.: 1

Product Data

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

Introduction

CST6 belongs to the type 2 cystatin family. Unlike other family members that act as active cysteine protease inhibitors, CST6 restrain the inhibition of cathepsin B but is not active against cathepsin C. CST6 are secretable proteins that influence osteogenesis and bone resorption, regulation of the hepatocyte growth factor receptors, and the response to systemic inflammation.

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

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

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

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