
Product Data Sheet

Product Name: CST3 Human, His Active

Cat. No.: GP26274

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Cystatin-C, Cystatin-3, Neuroendocrine basic polypeptide, Gamma-trace, Post-gamma-globulin, CST3, MGC117328.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSSPGKPPRL VGGPMDASVE EEGVRRALDF AVGEYNKASN DMYHSRALQV VRARKQIVAG VNYFLDVELG RTTCTKTQPN LDNCPFHDQP HMKRKAFCFSF QIYAVPWQGT MTLKSTCQD A		
Formulation	The CST3 solution (0.25mg/1ml) contains 0.1M NaCl, 20mM Tris-HCl buffer (pH 8.0) and 20% glycerol.		

Introduction

Cystatin C is part to the cystatin protein family, which has members with various cystatin-like sequences. Part of the proteins has the ability to act as active cysteine protease inhibitors, other members has lost or never had the ability. Three sub members of the cystatin protein family are the type 1 cystatins, type 2 cystatins & kininogens. The locus in chromosome twenty holds the most type 2 cystatin genes. Cystatin C can be found in the cystatin locus, it is the most common extracellular inhibitor of cysteine proteases, that is available in big volumes in biological fluids and exist in every tissue in the body.

Biological Activity

The IC50 value is < 2.0nM. The inhibitory function of Cystatin 3 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

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

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(0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CST3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 141 amino acids (27-146 a.a.) and having a molecular mass of 15.6kDa. CST3 is fused to a 21 amino acid His tag at N-Terminus and purified by proprietary chromatographic techniques.

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