9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

CST3 Human, His Active

Cystatin C, His BioActive Human Recombinant
RCP0561

Product Overview

Name	CST3 Human, His Active
Description	
Cystatin C, His BioActive Human Recombinant	
Accession (Primary)	P01034
Synonyms	
Cystatin-C, Cystatin-3, Neuroendocrine basic polypeptide, Gamma-trace, Post-gamma-globulin, CST3, MGC117328.	
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.	
Source	
E.coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
The CST3 solution (0.25mg/1ml) contains 0.1M NaCl, 20mM Tris-HCl buffer (pH 8.0) and 20% glycerol.	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH M SSPGKPPRL VGGPMDASVE EEGVRRALDF AVGEYNKASN DMYHSRALQV VRARKQIVAG VNYFLDVELG RTTCTKTQPN LDNCPFHDQP HLKRKAFCSF QIYAVPWQGT MTLSKSTCQD A	
Biological Activity	

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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.

Precautions

CST3 Human, His Active is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01034)