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CST5 Human

Cystatin 5 Human Recombinant
RCP0572

Product Overview

Name	CST5 Human
Description	
Cystatin 5 Human Recombinant	
Accession (Primary)	P28325
Synonyms	
Cystatin-D, CST5, Cystatin 5, Cystatin-5.	
Introduction	
Cystatin 5 (CST5) is a novel member of the cystatin superfamily, which encompasses proteins that contain multiple cystatin-like sequences. Some members are active cysteine protease inhibitors, while others have lost or possibly never had this inhibitory activity. The superfamily is comprised of 3 inhibitory families: the type 1 cystatins (stefins), type 2 cystatins and the kininogens. Type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in various human fluids and secretions.	
Source	
Sf9, Baculovirus cells.	
Physical Appearance	
Sterile Filtered clear solution.	
Formulation	
The CST5 solution (0.5mg/1ml) contains phosphate buffered saline (pH7.4) and 10% 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 90.0% as determined by SDS-PAGE.	
Amino acid sequence	
QSRTLAGGIH ATDLNDKSVQ RALDFAISEY NKVINKDEYY SRPLQVMAAY QQIVGGVNYY FNVKFGRTTC TKSQPNLDNC PFNDQPKLKE EEFCSFQINE VPWEDKISIL NYKCRKV HHH HHH .	
Biological Activity	
The IC50 value is < 2.0nM. The inhibitory function of Cystatin 5 on protease activity of papain was measured by a	

fluorometric assay using Z-FR-AMC at pH 7.5 at 25C.

Precautions

CST5 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P28325)