

Cystatin 5 Human Recombinant

Item Number	rAP-3119
Synonyms	Cystatin-D, CST5, Cystatin 5, Cystatin-5.
Description	CST5 Human Recombinant produced in E. coli is a single polypeptide chain containing 123 amino acids (26-142) and having a molecular mass of 14.36kDa. CST5 is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.
Uniprot Accession Number	P28325
Amino Acid Sequence	QSRTLGGIH ATDLNDKSVQ RALDFAISEY NKVINKDEYY SRPLQVMAAY QQIVGGVNY FNVKFGRTTC TKSQPNLDNC PFNDQPKLKE EEFCSEQINE VPWEDKISIL NYKCRKVHHH HHH.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered clear solution. 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.
Formulation and Purity	The CST5 solution (0.5mg/1ml) contains phosphate buffered saline (pH7.4) and 10% glycerol. Greater than 90.0% as determined by SDS-PAGE.
Application	
Solubility	
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.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**