

Cystatin-A Human Recombinant, Active

Item Number	rAP-3114
Synonyms	Cystatin-A, Cystatin-AS, Stefin-A, CSTA, STF1, STFA.
Description	Cystatin A Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain containing 118 amino acids (1-98a.a.) and having a molecular mass of 13.1 kDa. The Cystatin A is fused to a 20 amino acid His tag at N-terminus and purified by proprietary chromatographic techniques.
Uniprot Accession Number	P01040
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MIPGGLSEAK PATPEIQEIV DKVKPQLEEK TNETYKLEA VQYKTQVVAG TNYIYKVRAG DNKYMHLKVF KSLPGQNE DL VLTGYQVDKN KDELTGF.
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	Cystatin-A (1mg/ml) in 20mM Tris-HCl buffer (pH8.0), 1mM DTT and 10% glycerol. Greater than 95% as determined by reducing SDS-PAGE.
Application	
Solubility	
Biological Activity	The IC50 value is $\leq 1.0\text{nM}$. The inhibitory function of CSTA 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**