

CST1 Human

Description: CST1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 145 amino acids (21-141 a.a.) and having a molecular mass of 16.9kDa. CST1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:PRPS-1013

For research use only.

Synonyms: Cystatin-SN, Cystatin-SA-I, Cystatin-1, Salivary cystatin-SA-1, CST1.

Source: E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MGSMWSPKEE DRIIPGGIYN
ADLNDEWVQR ALHFAISEYN KATKDDYYRR PLRVLRARQQ TVGGVNYFFD VEVGRTICTK
SQPNLDTCAF HEQPELQKKQ LCSFEIYEVW WENRRSLVKS RCQES.

Purity: Greater than 95% as determined by SDS-PAGE.

Formulation:

CST1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 10% glycerol and 100mM NaCl.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

Cystatin-SN (CST1) belongs to the type 2 salivary cystatin family found in a variety of fluids and secretions, including plasma, tears, and saliva. The cystatin superfamily includes proteins which contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, whereas others have lost or possibly never developed this inhibitory activity. CST1 is up-regulated in cancerous lesions of gastric cancer tissues compared to noncancerous regions, in addition clinicopathological analysis revealed a significant correlation between high expression of CST1.

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