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Datasheet for ABIN1096494

**CST7 Protein (AA 20-145) (His tag)**

## Overview

Quantity:	50 µg
Target:	CST7
Protein Characteristics:	AA 20-145
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CST7 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human Cystatin F/CST7 (C-6His)
Sequence:	GPSPDTC SQD LNSRVKPGFP KTIKTNDPGV LQAARYSVEK FNNCTNDMFL FKESRITRAL VQIVKGLKYM LEVEIGRTTC KKNQHLRLDD CDFQTNHTLK QTLSCYSEVW VVPWLQHFEV PVL RCHVDHH HHHH
Characteristics:	Recombinant Human Cystatin F/CST7 (C-6His)
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	CST7
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## Target Details

Alternative Name: Cystatin-F ([CST7 Products](#))

Background: Recombinant Human Cystatin-F is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (G20-H145) of Human CST7 fused with a polyhistidine tag at the C-terminus.

CST7 is a secreted protein and primarily expressed in peripheral blood cells and spleen. It belongs to the cystatin family. The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and the kininogens. The type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in a variety of human fluids and secretions. This gene encodes a glycosylated cysteine protease inhibitor with a putative role in immune regulation through inhibition of a unique target in the hematopoietic system.

Molecular Weight: 15.58 kDa

UniProt: [O76096](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 µg/mL.

Dissolve the lyophilized protein in ddH<sub>2</sub>O.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, pH 8.0.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: 4 °C/-20 °C/-80 °C

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20°C for 3 months.