



[Go to Product page](#)

Datasheet for ABIN5854281

CST5 Protein (AA 26-142) (His tag)

1 Image

Overview

Quantity:	50 µg
Target:	CST5
Protein Characteristics:	AA 26-142
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CST5 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	QSRTLGGIHTDLNDKSVQRALDFAISEYNKVINKDEYYSRPLQVMAAYQQIVGGVNY FNVKFGRTTC TKSQPNLDNCPFNDQPKLKEEFCSFQINEVPWEDKISILNYKCRKVHHHHHH
Purity:	> 90 % by SDS - PAGE
Endotoxin Level:	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Activity Comment:	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.

Target Details

Target:	CST5
---------	------

Target Details

Alternative Name: [CST5 \(CST5 Products\)](#)

Background: CST5, also known as Cystatin-D, is a novel member of the cystatin superfamily. 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. Two alleles of the cystatin D gene (CST5), encoding protein variants with either Cys or Arg as residue 26 in their 122-residue polypeptide chains, are present in the population. Recombinant human CST5, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Molecular Weight: 14.36kDa (123aa) (13.5-18kDa in SDS-PAGE under reducing conditions.)

NCBI Accession: [NP_001891](#)

UniProt: [P28325](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Comment: Bioactivity Validated

Restrictions: For Research Use only

Handling

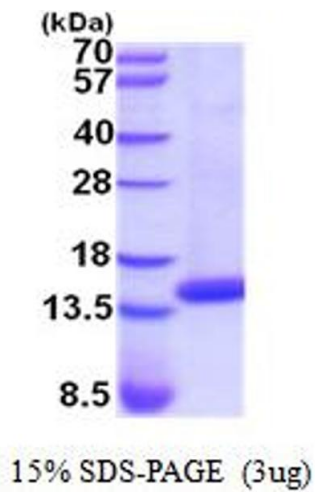
Format: Liquid

Concentration: 0.5 mg/mL

Buffer: Liquid. In phosphate buffered saline (pH 7.4) containing 10 % glycerol.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.



SDS-PAGE

Image 1.