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Datasheet for ABIN6387718

CSTA Protein (AA 1-98) (His tag)

1 Image

Overview

Quantity:	100 µg
Target:	CSTA
Protein Characteristics:	AA 1-98
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CSTA protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	MGSSHHHHHH SSSLVPRGSH MIPGGLSEAK PATPEIQEIV DKVKPQLEEK TNETYGKLEA VQYKTQVVAG TNYIYKVRAG DNKYMHLKVF KSLPGQNE DL VLTGYQVDKN KDELDTGF
Purity:	> 95 % by SDS - PAGE
Biological Activity Comment:	The IC50 value is < 1.0nM. The inhibitory function of Cystatin A on protease activity of papain was measured by a fluorometric assay using Z-FR-AMC at pH 7.5 at 25C.

Target Details

Target:	CSTA
Alternative Name:	CSTA (CSTA Products)

Target Details

Background: CSTA, also known as Stefin A, is thiol protease inhibitors that form complexes with papain and the cathepsins B, H and L. The protein is one of the precursor proteins of the cornified cell envelope in keratinocytes and plays a role in epidermal development and maintenance. CSTA is thought to be a tumor suppressor, since an inverse correlation seems to exist between the level of CSTA and tumor progression, in several malignancies Recombinant human CSTA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Molecular Weight: 13.1 kDa (118aa) confirmed by MALDI-TOF

NCBI Accession: [NP_005204](#)

UniProt: [P01040](#)

Pathways: [Response to Water Deprivation](#)

Application Details

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

Comment: Bioactivity Validated

Restrictions: For Research Use only

Handling

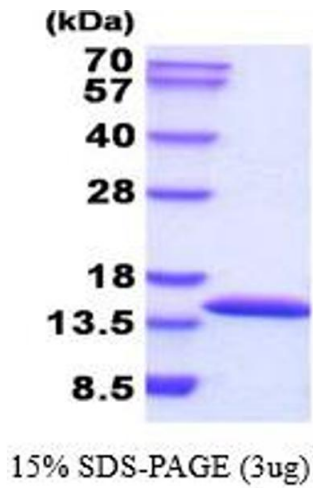
Format: Liquid

Concentration: 1 mg/mL

Buffer: Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 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.