

Recombinant human Cystatin A protein

Catalog Number: ATGP3261

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-98aa

UniProt No.

P01040

NCBI Accession No.

NP_005204

Alternative Names

Cystatin-A, STF1, STFA

PRODUCT SPECIFICATION

Molecular Weight

13.1 kDa (118aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity

> 95% by SDS-PAGE

Biological Activity

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.

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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

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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.

Amino acid Sequence

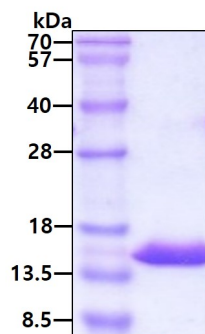
MGSSHHHHHH SSGLVPRGSH MIPGGLSEAK PATPEIQEIV DKVKPQLEEK TNETYGKLEA VQYKTQVVAG TNYIYKVRAG
DNKYMHLKVF KSLPGQNEDL VLTGYQVDKN KDELDTGF

General References

Takai T., et al. (2009) J Immunol. 183(12):7958-65.
Sinha AA., et al. (2008) Anticancer Res. 28(4B):2271-7.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain