Recombinant human Cystatin A protein

Catalog Number: ATGP0983

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

Tag
His-Tag

Application
SDS-PAGE

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 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.

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Amino acid Sequence

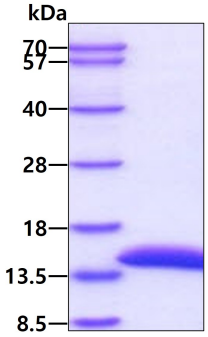
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General References

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



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.