

# **Product datasheet for AR52016PU-N**

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OriGene Technologies, Inc.

## Cystatin-A (1-98, His-tag) Human Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Cystatin-A (1-98, His-tag) human protein, 0.1 mg

Species: Human
Expression Host: E. coli

**Expression cDNA Clone** MGSSHHHHHH SSGLVPRGSH MIPGGLSEAK PATPEIQEIV DKVKPQLEEK TNETYGKLEA or AA Sequence: VQYKTQVVAG TNYYIKVRAG DNKYMHLKVF KSLPGQNEDL VLTGYQVDKN KDDELTGF

Tag: His-tag

Predicted MW: 13.1 kDa

Concentration: lot specific

Purity: >95% by SDS - PAGE

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol

**Bioactivity:** Specific: 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.

**Preparation:** Liquid purified protein

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**RefSeq:** <u>NP 005204</u>

 Locus ID:
 1475

 UniProt ID:
 P01040

 Cytogenetics:
 3q21.1

**Synonyms:** AREI; PSS4; STF1; STFA

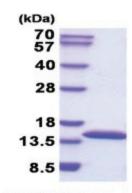




#### **Summary:**

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 kininogens. This gene encodes a stefin that functions as a cysteine protease inhibitor, forming tight complexes with papain and the cathepsins B, H, and L. The protein is one of the precursor proteins of cornified cell envelope in keratinocytes and plays a role in epidermal development and maintenance. Stefins have been proposed as prognostic and diagnostic tools for cancer. [provided by RefSeq, Jul 2008]

### **Product images:**



15% SDS-PAGE (3ug)