

**CST7, 20-1452aa, Human, His tag, Insect cell****Cat.NO.: TP01754**

3th Edition

**Synonyms:**Cystatin F, CMAP

**Description:**CST7, also known as cystatin-F, 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. This gene encodes a glycosylated cysteine protease inhibitor with a putative role in immune regulation through inhibition of a unique target in the hematopoietic system. Expression of the protein has been observed in various human cancer cell lines established from malignant tumors. Recombinant human CST7, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

**Form:**Liquid. In phosphate buffered saline (pH7.4).

**Molecular Weight:**15.3kDa (132aa) (18-28kDa in SDS-PAGE under reducing conditions.)

**Sequences:**

GPSPDTCSDLNSRVKPGFPKTIKTNDPGVLQAARYSVEKFNNCTNDMFLFKESRITRALVQIVKGLKYMLEVEIGR  
TTCKKNQHRLDDCDFQTNHTLKQTLSCYSEVWVVPWLQHFVPLRCHHHHHHH

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by absorbance at 280nm)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

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