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## Product Data Sheet

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Product Name: CST4 Human, sf9

Cat. No.: GP23258

Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CystatinS; Salivary Acidic Protein 1; Cystatin-SA-III; Cystatin-4; Cystatin 4; Cystatin-S.		
Amino Acid Sequence	ADPMSSSKEE NRIIPGGIYD ADLNDEWVQR ALHFAISEYN KATEDEYYRR PLQVLRAREQ TFGGVNYFFD VEVGRTICTK SQPNLDTCAF HEQPELQKKQ LCSFEIYEVP WEDRMSLVNS RCQEAHHHHH H.		
Formulation	CST4 protein solution (1mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

**Introduction**

CST4 is a member of the cystatin superfamily which contains proteins that hold multiple cystatin-like sequences. Several family members are active cysteine protease inhibitors, whereas others have lost or possibly never attained this inhibitory activity. CST4 strongly inhibits papain (non-competitively) and ficin, partially inhibits stem bromelain and bovine cathepsin C, however does not inhibit porcine cathepsin B or clostripain.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

CST4 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 131 amino acids (21-141 a.a.) and having a molecular mass of 15.4kDa (Migrates at 13.5-18kDa on SDS-PAGE under reducing conditions).

**Caution: Product has not been fully validated for medical applications. For research use only.**

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