

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	402-08
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 13.3 kDa, a single non-glycosylated polypeptide chain containing 120 amino acids.
Quantity:	5µg/25µg/1000µg
AA Sequence:	SSPGKPPRLV GGPMDASVEE EGVRRALDFA VGEYNKASND MYHSRALQVV RARKQIVAGV NYFLDVELGR TTCTKTQPNL DNCPFHDQPH LKRKAFCFSQ IYAVPWQGTMLSKSTCQDA
Purity:	> 98 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Data Not Available.
Physical Appearance:	Sterile colorless liquid.
Formulation:	Supplied as a 0.2 µm filtered solution in 20mM Tris-HCl, pH 8.0, 300 mM NaCl, with 50 % glycerol.
Endotoxin:	Less than 0.1 EU/µg of rHuCystatin-C as determined by LAL method.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 6 months from date of receipt, -20 to -70 °C as supplied.● 3 months, -20 to -70 °C under sterile conditions after opening.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

Human Cystatin-C

Cystatin C is a member of family 2 of the Cystatin superfamily. It is involved in processes such as tumor invasion and metastasis, inflammation and some neurological diseases. It inhibits many cysteine proteases such as papain and cathepsins B, H, K, L and S. It is ubiquitous in human tissues and body fluids. A point mutation in the gene coding for the 120 amino acid mature Cystatin C causes a hereditary form of amyloid angiopathy in which the protein variant (Leu68 to Gln) is deposited in the cerebral arteries, leading to fatal cerebral hemorrhage. Cystatin C may have additional clinical applications. For example, it is a good marker for glomerular filtration rate.