

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	103-13
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 20.1 kDa, a single non-glycosylated polypeptide chain containing 183 amino acids (C-terminal fragment of Collagen alpha-1(XVIII) chain).
Quantity:	20µg/100µg/1000µg
AA Sequence:	HSHRDFQPVL HLVALNSPLS GGMRGIRGAD FQCFQQARAV GLAGTFRAFL SSRLQDLYSI VRRADRAAVP IVNLKDELLF PSWEALFSGS EGPLKPGARI FSFDGKDVLR HPTWPQKSVW HGSDPNGRRL TESYCETWRT EAPSATGQAS SLLGGRLGQ SAASCHHAYI VLCIENSFMT ASK
Purity:	> 96 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ as determined by inhibiting the FGF basic-dependent proliferation of HUVEC migration is less than 2.0 µg/mL in the presence of Anti-Human Endostatin Polyclonal Antibody.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Endotoxin:	Less than 1 EU/µg of rHuEndostatin as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

Human Endostatin

Endostatin has been identified as a C-terminal fragment of Collagen type 18, a recently identified member of a family of collagen-like proteins referred to as multiplexin family. Endostatin specifically inhibits proliferation of endothelial cells although it does not affect the proliferation of EOMA cells. Endostatin also potently inhibits angiogenesis and tumor growth. Endostatin has an important role in endothelial cell adhesion and cytoskeletal organization. Endostatin can be found in vessel walls (elastic fibers) and basement membranes. Recombinant Endostatin expressed in yeast causes G1 arrest of endothelial cells, and endostatin treatment results in apoptosis of HUVE and HMVE cells.