

Recombinant Human Endostatin

#R00092

Size: 100 µg/500 µg

Stability & Storage

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 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.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

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.

AA Sequence

HSHRDFQPVLHLVALNSPLSGGMRGIRGADFQCFQQ
ARAVGLAGTFRAFLSSRLQDLYSIVRRADRAAVPIVNL
KDELLFPSWEALFSGSEGPLKPGARIFSFDGKDVLRH

PTWPQKSVWHGSDPNGRRLTESYCETWRTEAPSAT
GQASSLLGGRLLGQSAASCHHAYIVLCIENSFMTASK

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.

Product Specification

Accession	P39060
GeneID	80781
Species	Human
Source	Escherichia coli.
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).
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	Sterile Filtered White lyophilized
Appearance	(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.