

## Recombinant Human Endostatin (Human Endostatin)

### Product Information

Product Name	Cat#	Size
Recombinant Human Endostatin (Human Endostatin)	92513ES60	100µg
	92513ES76	500µg

### Product Description

Endostatin is a naturally-occurring 20-kDa C-terminal fragment derived from collagen alpha-1(XVIII) chain (COL18A1). It is reported to serve as an anti-angiogenic agent, similar to angiostatin and thrombospondin. It potently inhibits endothelial cell proliferation and inhibits endothelial cell angiogenesis by binding to the heparan sulfate proteoglycans involved in growth factor signaling. Endostatin is a broad spectrum angiogenesis inhibitor and may interfere with the pro-angiogenic action of growth factors such as basic fibroblast growth factor (bFGF/FGF-2) and vascular endothelial growth factor (VEGF).

### Product Properties

<b>Synonyms</b>	Human Endostatin
<b>Accession</b>	P39060
<b>GeneID</b>	80781
<b>Source</b>	E.coli-derived Human Endostatin protein,His1572-Lys1754.
<b>Molecular Weight</b>	Approximately 20.1 kDa.
<b>AA Sequence</b>	HSRDFQPV LHLVALNSPLS GGMRGIRGAD FQCFQQARAV GLAGTFRAFL SSR LQDLYSI VRRADRAAVP IVNLKDELLF PSWEALFSGS EGPLKPGARI FSFDGKDVLR HPTWPQKSVW HGSDPNGRRL TESYCETWRT EAPSATGQAS SLLGGRL LGQ SAASCHHAYI VL CIENSFMT ASK
<b>Tag</b>	None
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	> 96% by SDS-PAGE and HPLC analyses.
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> 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.
<b>Endotoxin</b>	< 1.0 EU per 1µg of the protein by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
<b>Reconstitution</b>	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 and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

### Cautions

1. Avoid repeated freeze-thaw cycles

- 
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.