

Recombinant Human Endostatin/COL18A1 Protein

Catalog No.: RP01938

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	80781	P39060

Tags

N-HuFc-His

Synonyms

COL18A1; Collagen alpha-1(XVIII) chain;
Cleaved into: Endostatin; Non-collagenous domain 1; NC1

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
51.03 kDa	60 kDa

Endotoxin

< 0.01 EU/μg of the protein by LAL method

Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Endostatin is able to evoke non-uniform response for proliferation, cell count and migration of endothelial cells, which different endostatin binding characteristic, leads to the assumption that endostatin effect is strongly dependent from endothelial cell type. Furthermore endostatin inhibits angiogenesis and tumor growth in vivo by inducing apoptosis in endothelial cells. The local delivery of endostatin seems to specifically affect tumor-associated microvessels by reduction of the vessel density, diameter and functionality. Tumor cell migration and invasion was greatly reduced in the endostatin treated animals. Endostatin is non-toxic and does not induce acquired drug resistance and has therefore become a potent new therapy strategy in solid neoplasias. This therapy appears to have a high potential not only for the treatment of gliomas, the most common brain tumors, but also in other tumors.

Basic Information

Description

Recombinant Recombinant Human Endostatin/COL18A1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln1133-Gln1381) of Human Endostatin/COL18A1 (Accession #NP_569712.2) fused with HuFc and His tag at the N-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

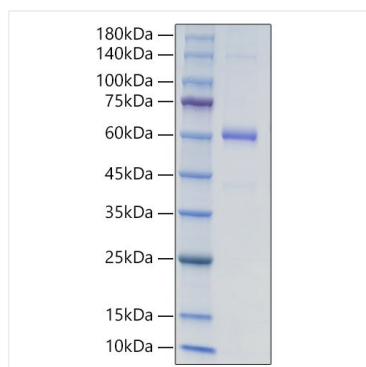
Contact

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Validation Data



Recombinant Human Endostatin/COL18A1
Protein was determined by SDS-PAGE under
reducing conditions with Coomassie Blue.