Tel:240-252-7368(USA)
Fax:240-252-7376(USA)
www.elabscience.com
E-mail:techsupport@elabscience.com
Elabscience Biotechnology Inc.

Elabscience®

Recombinant Mouse COL18A1/Endostatin Protein (His Tag)

Catalog No. PKSM040987

Description

Synonyms	antiangiogenic agent;COL18A1;collagen alpha-1(XVIII)chain; collagen;type XVIII;Endostatin
Species	Mouse
Expression_host	Human Cells
Sequence	His1591-Lys1774
Accession	P39061
Mol_Mass	21.2 kDa
AP_Mol_Mass	18 kDa
Tag	C-6His

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4 .
Reconstitution	Please refer to the printed manual for detailed information.

Background

Endostatin, an endogenous non-glycosylated inhibitor of endothelial cell proliferation and angiogenesis. It is produced and/or trimmed by metalloproteinases such as MMP-2 and MMP-9, and cathepsins S, B and L. The N-terminal ~27 aa of Endostatin appear to contain the majority of its activity. This region contains zinc binding sites that are thought to be critical for its anti-endothelial and anti-tumor effects, as well as multiple cleavage sites that, when used, can modify its activity. Mouse Endostatin shares 96% aa sequence identity with rat and 85-87% with human, bovine and equine Endostatin. It is predominantly expressed in liver, kidney, lung, skeletal muscle and testis. Endostatin inhibits endothelial cell growth by inducing cell cycle arrest in G1 phase and initiating apoptosis. It is also thought to down-regulate angiogenesis by blocking VEGF-induced endothelial cell migration. Endostatin may also be involved with down-regulation of angiogenesis after establishment of placental circulation in the pregnant uterus.

Tel:240-252-7368(USA)
Fax:240-252-7376(USA)
www.elabscience.com
E-mail:techsupport@elabscience.com
Elabscience Biotechnology Inc.

Elabscience®

SDS-PAGE