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## Product Datasheet

### Recombinant Mouse Endostatin (C-6His) EBT-EPT193

Article Name	Recombinant Mouse Endostatin (C-6His)
Biozol Catalog Number	EBT-EPT193
Supplier Catalog Number	EPT193
Alternative Catalog Number	EBT-EPT193-10
Manufacturer	ELK Biotechnology
Category	Proteine/Peptide
Product Description	Recombinant Mouse Collagen Alpha-1(XVIII) Chain is produced by our Mammalian expression system and the target gene encoding His1591-Lys1774 is expressed with a 6His tag at the C-terminus....
Molecular Weight	Molecular weight: 21.2 KDa. Apparent molecular weight: 18 KDa, reducing conditions
UniProt	<a href="#">P39061</a>
Purity	Greater than 95% as determined by reducing SDS-PAGE.

## Application Notes

Redissolve: Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.. Endotoxin: Less than 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test. 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.