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HB220214

Recombinant Mouse Vascular Endothelial Growth Factor 120 (Mouse VEGF120)

Product Information

Product Name	Cat#	Size
Recombinant Mouse Vascular Endothelial Growth Factor 120 (Mouse VEGF120)	91506ES10	10 μg
	91506ES60	100 μg
	91506ES76	500 μg

Product Description

Vascular endothelial growth factor (VEGF) is a highly specific mitogen for vascular endothelial cells. Five VEGF isoforms are generated as a result of alternative splicing from a single VEGF gene. These isoforms differ in their molecular mass and in biological properties such as their ability to bind to cell-surface heparan-sulfate proteoglycans. Mouse VEGF120 shares 98% aa sequence identity with corresponding regions of rat, 89% with canine, feline, equine and porcine, and 87% with human, ovine and bovine VEGF, respectively. VEGF120 and VEGF164, for inducing leukocyte stasis (leukostasis) within the retinal vasculature and blood-retinal barrier (BRB) breakdown and to determine whether endogenous VEGF164 mediates retinal leukostasis.

Product Properties

Synonyms	Vascular endothelial growth factor isoform 120
Accession	Q00731
Unigene	Mm.282184.
Source	Yeast-derived mouse VEGF120 protein, Ala27-Arg146.
Molecular Weight	Approximately 20.7 kDa in SDS-PAGE under reducing conditions.
AA Sequence	MAPTTEGEQK SHEVIKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC CNDEALECVP TSESNITMQI MRIKPHQSQH IGEMSFLQHS RCECRPKKDR TKPEKCDKPR R
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 95% by SDS-PAGE and 90% by SEC-HPLC analyses.
Biological Activity	Measured in a cell proliferation assay using HUVEC human umbilical vein endothelial cells. The ED_{50} for this effect is 1-4 ng/mL. Fully biologically active when compared to standard.
Endotoxin	< 0.1 EU per 1μg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
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℃. 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℃ to -80℃ 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!