

Leaders in human cell expressed recombinant proteins

VEGF-165 Vascular Endothelial Growth Factor-165

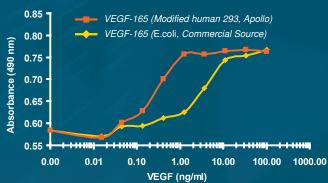
Vascular Endothelial Growth Factor (VEGF-165) is a naturally occurring angiogenic protein used in researching treatments for coronary heart disease.

Preliminary data indicate that human cell expressed VEGF-165 from Apollo Cytokine Research demonstrates up to ten-fold better activity in its ability to stimulate growth of human umbilical vein endothelial cells (HUVEC) than VEGF-165 produced from *E.coli* cells.¹



Schematic effect of VEGF-165 protein

The improved efficacy and biological activity of VEGF-165 from Apollo Cytokine Research may be due to the presence of post-translational glycan structures, some of which are terminally sialylated. These structures are absent from VEGF-165 expressed from *E. coli* cells.



Bioassay Results: VEGF (HUVEC Proliferation)



Protein sequence of VEGF-165, showing signal peptide in orange and potential N–glycosylation attachment sites in gold

Apollo Cytokine Research specialises in the production of recombinant human cytokines and growth factors from human cells. The resulting proteins more closely mimic naturally occuring cytokines because they exhibit human posttranslational modifications.

For further information, or to view our full product list, please visit our website (www.apollocytokineresearch.com).

Ordering Information

Product	Product Code
VEGF – 165 (5µg)	3075C
VEGF – 165 (10µg)	3075D

These products are for Research Use Only

[1] These data were independently validated.

www.apollocytokineresearch.com

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研究及提供拥有人类後转译修 饰细胞激素的先驱。

血管内皮生长因子(VEGF-165)

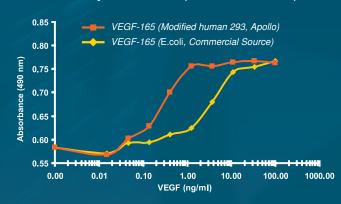
血管内皮生长因子-165(VEGF-165)是一种天然 产生及促进血管新生的蛋白,用于冠心病治疗研 究。

根据初步数据显示, Apollo Cytokine Research 以人类细胞表达的 VEGF-165 在刺激人类脐静脉 内皮细胞(HUVEC)的功用上, 与一般 E.coli 所表达的 VEGF-165 相比, 有十倍以上的功效。





Apollo Cytokine Research 研究出在人类细胞所 表达的 VEGF-165 之所以比一般在 E. coli 表达 的 VEGF-165 有更佳的功效及生理作用, 是可 能由於人类细胞可表达接近天然的後转译多糖结 构。这些接近人类天然的後转译多糖结构不存在 於一般 E. coli 表达的 VEGF-165 内。



Bioassay Results: VEGF (HUVEC 细胞分裂繁殖)

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Protein sequence of VEGF-165, showing signal peptide in orange and potential N–glycosylation attachment sites in gold

Apollo Cytokine Research 專門研究生产用人 類細胞所表达之細胞激素 (cytokines)。由於 Apollo Cytokine Research 所生產的細胞激素 拥有人类的後转译多糖结构, Apollo Cytokine Research 生产的细胞激素更为接近人类天然生 产的细胞激素。

如需要更多关于我们的资料及产品介绍,请观览 我们的网页。

定购资料

产品	产品编号
VEGF – 165 (5µg)	3075C
VEGF – 165 (10µg)	3075D

这些产品只供研究使用。

[1] 这实验结果经外部监定确认。

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