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## Product Datasheet

### Human VEGF165 protein, His tag, Unconjugated GTX00110-PRO

Article Name	Human VEGF165 protein, His tag, Unconjugated
Biozol Catalog Number	GTX00110-PRO
Supplier Catalog Number	GTX00110-pro
Alternative Catalog Number	GTX00110-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	<a href="#">7422</a>
UniProt	<a href="#">P15692</a>
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Pro28~Arg191 (NP_001020537.2)

## Application Notes

Vascular endothelial growth factor 165 is one kind of isoforms of Vascular endothelial growth factor A (VEGFA). This protein is a glycosylated mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, and inhibiting apoptosis. Besides, Vascular Endothelial Growth Factor Receptor 1 (VEGFR1) has been identified as an interactor of VEGF165, thus a binding ELISA assay was conducted to detect the interaction of recombinant human VEGF165 and recombinant human VEGFR1. Briefly, VEGF165 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100  $\mu$ l were then transferred to VEGFR1-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-VEGF165 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37C. Finally, add 50  $\mu$ l stop solution to the wells and read at 450nm immediately. The binding activity of VEGF165 and VEGFR1 was in a dose dependent manner.