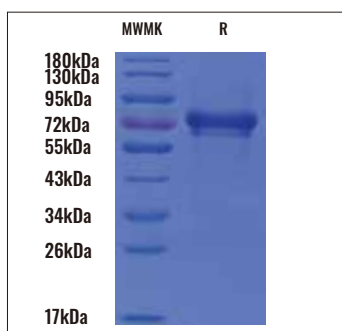


# RECOMBINANT HUMAN VITRONECTIN GMP

<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder
<b>Gene ID</b>	7448
<b>Description</b>	Vitronectin (VTN or VN) is a glycoprotein of the hemopexin family which is abundantly found in serum, the extracellular matrix and bone. In humans it is encoded by the VTN gene. Vitronectin binds to integrin $\alpha_v\beta_3$ and thus promotes cell adhesion and spreading. It also inhibits the membrane-damaging effect of the terminal cytolytic complement pathway and binds to several serpins (serine protease inhibitors). It is a secreted protein and exists in either a single chain form or a clipped, two chain form held together by a disulfide bond. Vitronectin is suggested to be involved in hemostasis, cell migration, as well as tumor malignancy.
<b>Catalog Number</b>	GB13.1
<b>Unit Size</b>	300 $\mu$ g
<b>Source</b>	HEK293
<b>Molecular Weight</b>	VTN consists of 468 amino acids and predicts a molecular weight of 53.4 kDa. As a result of glycosylation, it migrates as an approximately 72 kDa band in SDS-PAGE under reducing conditions.
<b>AA Sequence</b>	A DNA sequence encoding the human VTN (Met1-Leu478) was expressed with a polyhistidine tag at the C-terminus.
<b>Purity (HPLC)</b>	> 95%
<b>Purity (SDS-PAGE)</b>	> 95%
<b>Biological Activity</b>	Measured by the ability of the immobilized protein to support the adhesion of DU145 human prostate carcinoma cells. When cells are added to Vitronectin-coated plates (10 $\mu$ g/mL and 100 $\mu$ L/well), approximately > 40% cells will adhere specifically after 30 minutes at 37 $^{\circ}$ C.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4.
<b>Sterility</b>	Negative
<b>Endotoxin</b>	< 0.01 EU/ $\mu$ g as determined by LAL gel-clot method
<b>Reconstitution</b>	Before use this product, please read the direction below carefully. <ol style="list-style-type: none"> <li>1. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom.</li> <li>2. Reconstitute in a sterile aqueous buffer to an appropriate concentration.</li> <li>3. Stock solutions should be apportioned into working aliquots and stored at <math>\leq -20</math> <math>^{\circ}</math>C. Further dilutions should be made in appropriate buffered solutions.</li> </ol>
<b>Stability &amp; Storage</b>	For long term storage, the product should be stored $\leq -20$ $^{\circ}$ C. <b>Please avoid repeated freeze-thaw cycles after reconstitution.</b> <ol style="list-style-type: none"> <li>1. At least 24 months from date of receipt, <math>\leq -20</math> <math>^{\circ}</math>C as supplied;</li> <li>2. 1 month, 2 to 8 <math>^{\circ}</math>C under sterile conditions after reconstitution;</li> <li>3. 3 months, <math>-20</math> to <math>-70</math> <math>^{\circ}</math>C under sterile conditions after reconstitution.</li> </ol>
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended.



## DATA



### Purity of Recombinant Human Vitronectin (His) SDS-PAGE

2 µg/lane of Recombinant Human Vitronectin was resolved with SDS-PAGE under reducing (R) condition and visualized by Coomassie® Blue staining, showing R band at 72 kDa.

## CONTENTS

Product	Cat. No.	Amount	Storage	Shelf life
Recombinant Human Vitronectin (His Tag)	GB13.1	300µg	≤-20°C	24 months

## LIMITED WARRANTY

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