# Recombinant VWF-A1 domain, human, residues 1261-1468, VWD type 2B

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## Product description

Human Von Willebrand Factor (VWF) is a multimeric glycoprotein, which is involved in binding coaggulation factor VIII and adhesion of platelets at sites of vascular damage. In this process the platelet receptor glycoprotein Ib-IX-V complex binds to the VWF-A1 domain. The VWF-A1 variant in this product contains the Von Willebrand Disease type 2B mutation R1306Q, which induces spontaneous binding of the VWF-A1 domain to the platelet receptor GpIb-IC-V complex.

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|---|---|
| Reference sequences: | NM_000552 |
| | NP_000543 |
| | Swiss-prot P04275 |
| Alternative names: | Von Willebrand antigen II |
| | Von Wiilebrand Factor |
| | F8VWF |
| Gene ID: | 7450 |

Residues 1261- 1468 of of human VWF containing muation R1306Q were cloned, the protein was over-expressed and was purified to homogeneity (figure 1). The calculated molecular weight of recombinant human VWF-A1 domain is 23.8 kDa. Each vial contains 100 µg VWF-A1 at 8.14 mg/ml.

## Storage and stability

VWF-A1 should be stored at -80°C (stable for at least 1 year). The buffer contains 25 mM tris 150 mM NaCL pH 7.8 without preservatives. After thawing it should be stored in appropriate small aliquots at -20°C to -80°C (stable for at least 2 months). For maximal stability the concentration of NaCl should be at least 100 mM.

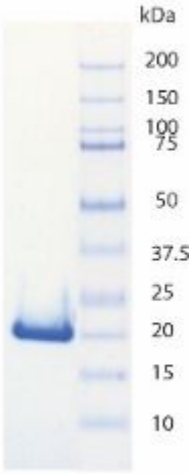


Figure 1.
NuPage analysis of purified VWF-A1

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