

Recombinant VWF-A1 domain, human, residues 1238-1481

Life Sciences Incubator
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Catalog V003 - 0.1 mg
Lot 1554

Product description

Human Von Willebrand Factor (VWF) is a multimeric glycoprotein, which is involved in binding coagulation factor VIII and in 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 longer N- and C-terminal poly-peptides (with 5 O-linked glycosylation sites), which prevent spontaneous binding of the VWF-A1 domain to platelet receptor GpIb-IX-V complex.

Reference sequences: NM_000552
NP_000543
Swiss-prot P04275

Alternative names: Von Willebrand antigen II
Von Willebrand Factor
F8VWF

Gene ID: 7450

Residues 1238-1481 of human VWF 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 27.4 kDa. Each vial contains 100 µg VWF-A1 at 8.23 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 350 mM NaCl pH 7.8 without preservative. After thawing it should be stored in appropriate small aliquots at - 20 °C or - 80 °C (stable for at least 2 months). For maximal stability the concentration NaCl should be at least 100 mM.

Production platform:

This product has been produced in HEK293 cells using the rPEX™ recombinant protein production platform.

PRODUCT USE LIMITATIONS, WARRANTY, DISCLAIMER

The product is not for use in humans

The product can only be used for internal research and development

The product can not be used in any commercial activity (commercial use includes, but is not limited to, 1) preparation of growth media with the purpose of sale, 2) R&D activities for third parties)

The product can not be resold.

Please contact bd@immunoprecise.com to inquire about further information.

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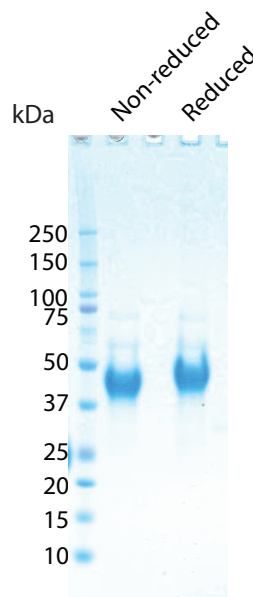


Figure 1.
NuPage analysis of
purified VWF-A1