

Human vWF Protein (His Tag)

Catalog Number: 10973-H08C



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

F8VWF; Von Willebrand Factor; VWD; 6820430P06Rik; AI551257; B130011O06Rik; C630030D09; F8VWF; VWD

Protein Construction:

A DNA sequence encoding the pro form of human von Willebrand factor (NP_000543.2) (Met 1-Lys 2813) was expressed with a C-terminal polyhistidine tag.

Source: Human

Expression Host: CHO Stable Cells

QC Testing

Purity: > 75 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ala 23

Molecular Mass:

The secreted recombinant human vWF consists of 2802 amino acids after removal of the signal peptide and has a predicted molecular mass of 308 kDa. Purified rhvWf exists as both the pro form with the pro peptide (307 kDa) and the mature form (226 kDa), which migrates as doublets with apparent molecular mass of 260 and 350 kDa respectively in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

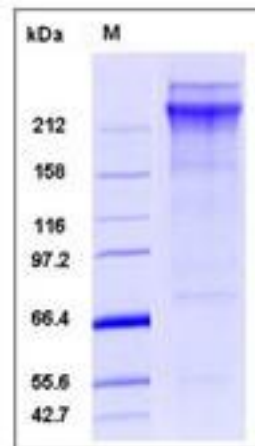
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Von Willebrand Factor (VWF) is a multimeric glycoprotein involved in hemostasis in blood, binds receptors on the surface of platelets and in connective tissue, thereby mediating the adhesion of platelets to sites of vascular injury. From studies it appears that VWF protein uncoils under these circumstances, decelerating passing platelets. VWF protein is deficient or defective in von Willebrand disease (VWD) and is involved in a large number of other diseases, including thrombosis, thrombotic thrombocytopenic purpura, Stroke, Heyde's syndrome, possibly hemolytic-uremic syndrome and so on.

References

- 1.Sadler JE. (1998) Biochemistry and genetics of von Willebrand factor. Annu Rev Biochem, 67: 395-424.
- 2.Battle J, et al. (2009) Von Willebrand factor/factor VIII concentrates in the treatment of von Willebrand disease. Blood Coagul Fibrinolysis. 20(2):89-100.
- 3.Sadler JE. (2009) von Willebrand factor assembly and secretion. J Thromb Haemost. 7 Suppl 1:24-7.

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