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Product Datasheet

Prothrombin, Fragment 2, Human

USB-P9115-13

Article Name	Prothrombin, Fragment 2, Human
Biozol Catalog Number	USB-P9115-13
Supplier Catalog Number	P9115-13
Alternative Catalog Number	USB-P9115-13-1
Manufacturer	US Biological
Category	Molekularbiologie
Product Description	Prothrombin is a vitamin K-dependent plasma protein which is synthesized in the liver. Prior to secretion into plasma, prothrombin undergoes post-translational modification by a vitamin K-dependent carboxylase which converts ten specific glutamic acid residues to gamma-carboxyglutamic acid (Gla). This modification is required for the biological activity of prothrombin. The Gla residues bind calcium ions, which are essential for the formation of a stable thrombin-activatable fibrinolysis inhibitor (TAFI) complex. Prothrombin is a key component of the extrinsic coagulation pathway, where it is activated by factor Xa to thrombin. Thrombin then catalyzes the conversion of fibrinogen to fibrin, which forms the structural framework of a blood clot. Prothrombin is also involved in the formation of the prothrombinase complex, which activates factor X. The product is supplied as a liquid in 50% glycerol/H2O.
Molecular Weight	12866
Purity	95% by SDS-PAGE. Human prothrombin is prepared from fresh frozen human plasma as described by Bajaj, et al. (2). Purity is determined by SDS-PAGE analysis, and activity is measured by clotting and/or chromogenic substrate assay, following conversion of prothrombin to thrombin.
Form	Supplied as a liquid in 50% glycerol/H2O.