

# Prothrombin (Human)

9.00 mg

Ref#: HF2  
Lot#: SAMPLE  
Exp. Date:



Store at +2 to +8°C

For Research Use Only  
Not for Use in Diagnostic Procedures  
For *in vitro* use only

<b>Description:</b>	Prothrombin (Human)
<b>Format:</b>	Lyophilized in 20 mM Tris-HCl/ 0.1 M NaCl/ pH 7.4
<b>Host:</b>	Human
<b>Storage:</b>	Store between +2 and +8°C After reconstitution aliquot and freeze at ≤-60°C
<b>Reconstitution:</b>	We recommend hydrating the protein with sterile water to the original volume
<b>Volume:</b>	1 vial containing 1.00 mL
<b>Total Protein:</b>	9.00 mg
<b>Concentration:</b>	9.00 mg/mL before lyophilisation by Absorbance; Extinction Coefficient $E^{1\%}_{280} = 13.6$
<b>Molecular weight:</b>	72000 daltons

Human Prothrombin, also known as coagulation Factor II, is a 72 kDa glycoprotein synthesized in the liver and composed of a single polypeptide chain. Prothrombin is the zymogen form of Thrombin. Prothrombin is cleaved to produce Thrombin by the membrane-bound prothrombinase complex (activated Factor X, activated Factor V and Calcium), the concentration in human plasma is about 100 µg/ml (1.4 µM).

Complete activation is observed on SDS-PAGE. It shows now reduction upon incubation with 2-mercaptoethanol.

The above protein was purified from Human plasma that was tested and found negative by FDA accepted methods for Anti-HIV 1/2, Anti-HTLV I & II, HBsAg, Anti-HCV, Syphilis, HBC Ab, HIV-1 p24 Ag or HIV-1 RNA, HCV RNA and HBV RNA. Donors are screened for CJD (Creutzfeld-Jakob Disease).