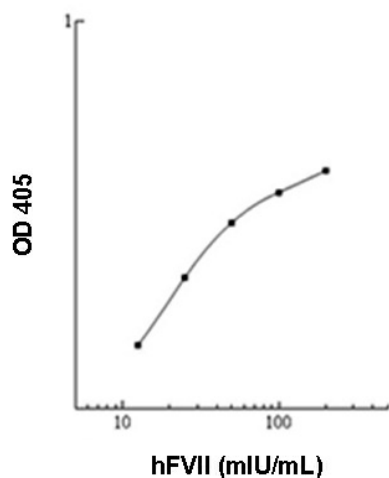


# F7 (Human) Chromogenic Activity Assay Kit

Catalog # KA0971

Size 1 Kit

## Applications



The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

## Specification

|                                |                                                                                                                                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | F7 (Human) Chromogenic Activity Assay Kit is developed to determine human F7 activity in plasma and cell culture supernatants.                                                                    |
| <b>Suitable Sample</b>         | Cell Culture Supernatant, Plasma, Serum                                                                                                                                                           |
| <b>Calibration Range</b>       | 12.5 to 200 mIU/mL                                                                                                                                                                                |
| <b>Reactivity</b>              | Human                                                                                                                                                                                             |
| <b>Regulation Status</b>       | For research use only (RUO)                                                                                                                                                                       |
| <b>Quality Control Testing</b> | Standard curve<br>The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed. |
| <b>Storage Instruction</b>     | Store the kit at -20°C. Store the Standard, FX, rhTF and FXa Substrate at -20°C. Store other components at 4°C.<br>Avoid repeated freezing and thawing.                                           |

## Applications

- Functional Study

## Gene Info — F7

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">2155</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene Name          | F7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Gene Alias         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene Description   | coagulation factor VII (serum prothrombin conversion accelerator)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Omim ID            | <a href="#">227500</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Summary       | This gene encodes coagulation factor VII which is a vitamin K-dependent factor essential for hemostasis. This factor circulates in the blood in a zymogen form, and is converted to an active form by either factor IXa, factor Xa, factor XIIa, or thrombin by minor proteolysis. Upon activation of the factor VII, a heavy chain containing a catalytic domain and a light chain containing 2 EGF-like domains are generated, and two chains are held together by a disulfide bond. In the presence of factor II and calcium ions, the activated factor then further activates the coagulation cascade by converting factor IX to factor IXa and/or factor X to factor Xa. Alternative splicing of this gene results in 2 transcripts. Defects in this gene can cause coagulopathy. [provided by RefSeq] |
| Other Designations | FVII coagulation protein OTTHUMP00000018733 OTTHUMP00000018734 coagulation factor VII eptacog alfa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Publication Reference

- [Successful synthesis of active human coagulation factor VII by co-expression of mammalian gamma-glutamyl carboxylase and modification of vit.K cycle in Drosophila Schneider S2 cells.](#)  
Nagahashi K, Umemura K, Kanayama N, Iwaki T.  
Cytotechnology 2017 Apr; 69(2):317.  
Application: Quant, Human, S2 cells

## Pathway

- [Complement and coagulation cascades](#)

## Disease

- [Abortion](#)
- [Activated Protein C Resistance](#)
- [Acute Disease](#)
- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Anemia](#)
- [Angina](#)
- [Angina Pectoris](#)
- [Arterial Occlusive Diseases](#)
- [Arteriosclerosis](#)
- [Atherosclerosis](#)
- [Atrial Fibrillation](#)
- [Birth Weight](#)
- [Blood Coagulation Disorders](#)
- [Body Weight](#)
- [Brain Ischemia](#)
- [Bronchopulmonary Dysplasia](#)
- [Budd-Chiari Syndrome](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Carotid Stenosis](#)
- [Cerebral Hemorrhage](#)
- [Cerebral Infarction](#)
- [Cerebral Palsy](#)

- [Cerebrovascular Accident](#)
- [Cerebrovascular Disorders](#)
- [Chorioamnionitis](#)
- [Chronic Disease](#)
- [Connective Tissue Diseases](#)
- [Constriction](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Coronary Restenosis](#)
- [Coronary Stenosis](#)
- [Coronary Thrombosis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Disease Progression](#)
- [Edema](#)
- [Factor VII Deficiency](#)
- [Factor XIII Deficiency](#)
- [Fetal Diseases](#)
- [Fetal Membranes](#)
- [Genetic Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Heart Defects](#)
- [Hemophilia A](#)
- [Hemorrhage](#)
- [Hemorrhagic Disease of Newborn](#)

- [Hemorrhagic Disorders](#)
- [Hepatitis](#)
- [Hypercholesterolemia](#)
- [Hyperlipidemias](#)
- [Hyperlipoproteinemia Type II](#)
- [Hypertension](#)
- [Infant](#)
- [Infection](#)
- [Inflammation](#)
- [Insulin Resistance](#)
- [Intracranial Embolism](#)
- [Intracranial Thrombosis](#)
- [Ischemic Attack](#)
- [Kidney Failure](#)
- [Leukomalacia](#)
- [Liver Cirrhosis](#)
- [Metabolic Syndrome X](#)
- [Migraine Disorders](#)
- [Musculoskeletal Diseases](#)
- [Myocardial Infarction](#)
- [Myocardial Ischemia](#)
- [Neoplasms](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Periodontitis](#)

- [Peripheral Vascular Diseases](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Recurrence](#)
- [Sepsis](#)
- [Skin Diseases](#)
- [Stroke](#)
- [Subarachnoid Hemorrhage](#)
- [Thromboembolism](#)
- [Thrombophilia](#)
- [Thrombosis](#)
- [Venous Thrombosis](#)
- [Vitamin K Deficiency](#)
- [Werner syndrome](#)