

Datasheet for ABIN6239863

Factor VII Protein (AA 315-433) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	50 µg
Target:	Factor VII (F7)
Protein Characteristics:	AA 315-433
Origin:	Rat
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This Factor VII protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 95 %
Biological Activity Comment:	The main role of factor VII (FVII) is to initiate the process of coagulation in conjunction with tissue factor (TF). Tissue factor is found on the outside of blood vessels-normally not exposed to the bloodstream. Upon vessel injury, tissue factor is exposed to the blood and circulating FVII. Once bound to TF, FVII is activated to FVIIa by different proteases, among which are thrombin (factor IIa), factor Xa, IXa, XIIa, and the FVIIa-TF complex itself. Tissue Factor (TF) has been identified as an interactor of FVII, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat FVII and recombinant rat TF. Briefly, FVII were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to TF-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-FVII pAb, then aspirated and washed 3 times. After incubation with HRP labelled

Product Details

secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of of FVII and TF was shown in Figure 1, and this effect was in a dose dependent manner The binding activity of FVII with TF.

Target Details

Target:	Factor VII (F7)
Abstract:	F7 Products
Background:	Alternative Names: FVII, SPCA, proconvertin, Cothromboplastin, Serum Prothrombin Conversation Accelerator, Stable Factor, Eptacog alfa
Molecular Weight:	14kDa
UniProt:	Q8K3U6
Pathways:	Response to Growth Hormone Stimulus, Platelet-derived growth Factor Receptor Signaling

Application Details

Application Notes:	Isoelectric Point: 6.4
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

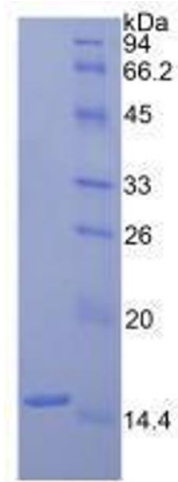


Image 1.