

Recombinant Rat F2 Protein, His-tagged

Cat. No. F2-1450R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat F2 Protein (Ser201-Arg323) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Ser201-Arg323
Description	Predicted to enable several functions, including heparin binding activity; lipopolysaccharide binding activity; and serine-type endopeptidase activity. Involved in several processes, including cellular response to mechanical stimulus; response to thyrotropin-releasing hormone; and response to thyroxine. Located in collagen-containing extracellular matrix and extracellular space. Used to study several diseases, including atherosclerosis; end stage renal disease; hyperhomocysteinemia; obesity; and thrombophilia (multiple). Biomarker of bacterial pneumonia; brain edema; calcium oxalate nephrolithiasis; and thrombosis. Human ortholog(s) of this gene implicated in several diseases, including X-linked recessive disease (multiple); appendicitis; artery disease (multiple); autoimmune disease (multiple); and thrombophilia (multiple). Orthologous to human F2 (coagulation factor II, thrombin).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 14.4 kDa Accurate Molecular Mass: 20 kDa

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Purity	> 95%
Applications	Cell culture; Activity Assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	F2 coagulation factor II [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	F2
Synonyms	F2; coagulation factor II; prothrombin; coagulation factor 2; thrombin; EC 3.4.21.5
Gene ID	29251
mRNA Refseq	NM_022924
Protein Refseq	NP_075213

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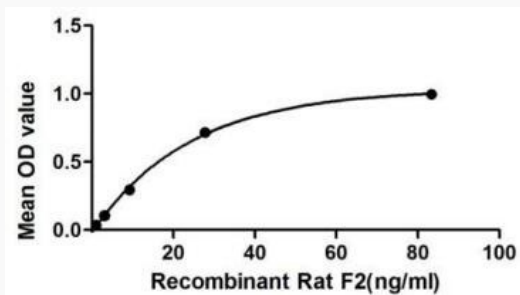
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UniProt ID

P18292

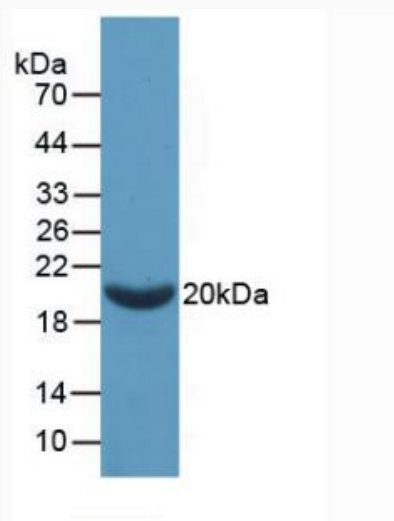
Bioactivity



The binding activity of F2 with PCI.

This binding activity of F2 with PCI

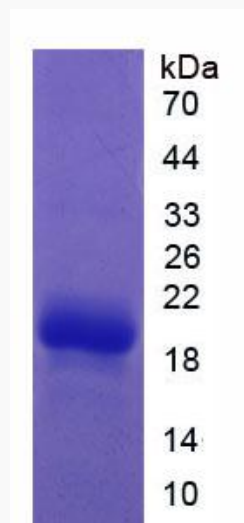
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