

Recombinant Rat F2 Protein, His-tagged

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

SPECIFICATION

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|-------------------------|---|
| 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

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|------------------------|---|
| 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 |

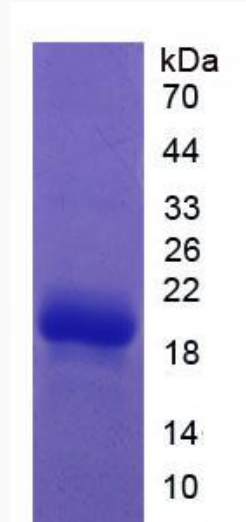
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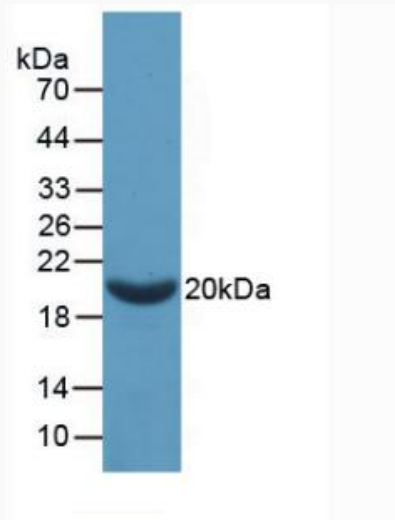
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UniProt ID

P18292



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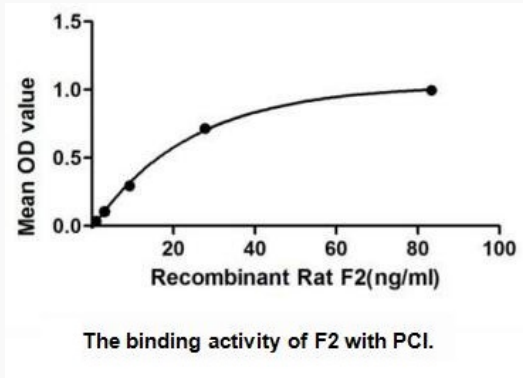


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Bioactivity



The binding activity of F2 with PCI

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