

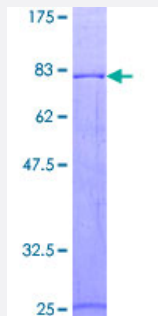
Full-Length

PROC (Human) Recombinant Protein (P01)

Catalog # H00005624-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PROC full-length ORF (NP_000303.1, 1 a.a. - 461 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MWQLTSLLLFVATWGISGTPAPLDSVFSSSERAHQVLRIRKRANSFLEELRHSSLERECIEEICDF
EEAKEIFQNVDDTLAFWSKHVDGDQCLVLPLEHPCASLCCGHGTCIDGIGSFSCDCRSWEGRF
CQREVSFLNCSLDNGGCTHYCLEEVGWRRCSAPGYKLGDLLQCHPAVKFPCGRPWKMEK
KRSHLKRDTEQEDQVDPRLIDGKMTRRGDSPWQVVLDSKKKLACGAVLIHPSWVLTAAHCM
DESKLLVRLGEYDLRRWEKWELDLDIKEVFVHPNYSKSTTDNDIALHQAQATLSQTIVPICLPD
SGLAERELNQAGQETLVTGWGYHSSREKEAKRNRTFVLNFIKIPVVPHECSEVMSNMVSENML
CAGILGDRQDACEGDSGPMVASFHGTWFLVGLVSWGEGCGLLHNYGVYTKVSRYLWDWIHGHIR
DKEAPQKSWAP

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

78.5

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PROC

Entrez GeneID[5624](#)**GeneBank Accession#**[NM_000312.2](#)**Protein Accession#**[NP_000303.1](#)**Gene Name**

PROC

Gene Alias

PC, PROC1

Gene Description

protein C (inactivator of coagulation factors Va and VIIIa)

Omim ID[176860](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The PROC gene encodes protein C (EC 3.4.21.69), a vitamin K-dependent plasma glycoprotein that is a key component of the anticoagulant system. Protein C is cleaved to its activated form, 'activated protein C' (APC) on endothelial cells by the thrombin-thrombomodulin complex (MIM 176930; MIM 188040) and then acts as a serine protease to degrade the activated forms of coagulation factors V (F5; MIM 612309) and VIII (F8; see MIM 306700). Protein S (PROS1; MIM 176880), also a vitamin K-dependent plasma protein, functions as a cofactor to activated protein C.[supplied by OMIM]

Other Designations

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Pathway

- [Complement and coagulation cascades](#)

Disease

- [Acute Disease](#)
- [Cadaver](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Inflammation](#)
- [Kidney Failure](#)
- [Meningococcal Infections](#)
- [Multiple Organ Failure](#)
- [Obstetric Labor](#)
- [Postoperative Complications](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Protein C Deficiency](#)
- [Sepsis](#)

- [Stroke](#)
- [Thrombophilia](#)
- [Thrombosis](#)
- [Vascular Diseases](#)
- [Venous Thrombosis](#)