

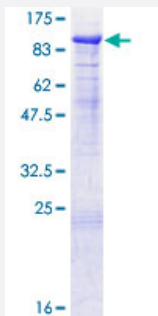
Full-Length

PROS1 (Human) Recombinant Protein (P01)

Catalog # H00005627-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human PROS1 full-length ORF (AAH15801.1, 1 a.a. - 676 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MRVLGGRCGALLACLLLVLPVSEANFLSKQQASQVLVRKRRANSLLEETKQGNLERECIEELCNK
EEAREVFENDPETDYFYPKYLVLRSFQTGLFTAARQSTNAYPDLRSCVNAIPDQCSPLPCNEDG
YMSCKDGKASFTCTCKPGWQGEKCEFDINECKDPSNINGGCSQICDNTPGSYHCCKNGFVML
SNKKDCKDVDECSLKPSICGTAVCKNIPGDFECECEGYRYNLKSKSCEDIDECSNMCAQLCV
NYPGGYTCYCDGKKGFKLAQDQKSCEVVSVCPLNLDTKYELLYLAEQFAGVVLYLKFRLEISR
FSAEFDRTYDSEGVILYAESIDHSAWLLIALRGGKIEVQLKNEHTSKITGGDVINNGLWNMVSVE
ELEHSISIKIAKEAVMDINKPGPLFKPENGLLETKVYFAGFPRKVESELKPINPRLDGCIRSWNLK
QGASGIKEIQEKQNKHCLVTVEKGSYPGSGIAQFHIDYNNVSSAEGWHVNVTLNIRPSTGTGVML
ALVSGNNTVPFAVSLVDSTSEKSQDILLSVENTVIYRIQALSLCSDQQSHLEFRVNRNNLELSTPLK
IETISHEDLQRQLAVLDKAMKAKVATYLGGLPDVPFSATPVNAFYNGCMEVNINGVQLDLDEAISK
HNDIRAHSCPSVWKKTKNS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

101.5

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 — PROS1

Entrez GeneID	5627
GeneBank Accession#	BC015801.1
Protein Accession#	AAH15801.1
Gene Name	PROS1
Gene Alias	PROS, PS21, PS22, PS23, PS24, PS25, PSA
Gene Description	protein S (alpha)
Omim ID	176880
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a vitamin K-dependent plasma protein that functions as a cofactor for the anti coagulant protease, activated protein C (APC) to inhibit blood coagulation. It is found in plasma in both a free, functionally active form and also in an inactive form complexed with C4b-binding protein. Mutations in this gene result in autosomal dominant hereditary thrombophilia. An inactive pseudogene of this locus is located at an adjacent region on chromosome 3. [provided by RefSeq]
Other Designations	protein S, alpha protein Sa

Publication Reference

- [Gas6 Promotes Microglia Efferocytosis and Suppresses Inflammation Through Activating Axl/Rac1 Signaling in Subarachnoid Hemorrhage Mice.](#)

Junjia Tang, Yichao Jin, Feng Jia, Tao Lv, Anatol Manaenko, Lin-Feng Zhang, Zeyu Zhang, Xin Qi, Yajun Xue, Bin Zhao, Xiaohua Zhang, John H Zhang, Jianfei Lu, Qin Hu.

Translational Stroke Research 2022 Nov; [Epub].

Application: Sub, Mouse, Mouse brain cortex

- [Tyro3 is a podocyte protective factor in glomerular disease.](#)

Zhong F, Chen Z, Zhang L, Xie Y, Nair V, Ju W, Kretzler M, Nelson RG, Li Z, Chen H, Wang Y, Zhang A, Lee K, Liu Z, He JC.

JCI Insight 2018 Nov; 3(22):123482.

Application: Func, Human, Human podocytes

Pathway

- [Complement and coagulation cascades](#)

Disease

- [Abortion](#)
- [Cardiovascular Diseases](#)
- [Carotid Stenosis](#)
- [Chorioamnionitis](#)
- [Coronary Disease](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Inflammation](#)
- [Obstetric Labor](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)

- [Premature Birth](#)
- [Protein S Deficiency](#)
- [Stroke](#)
- [Thrombophilia](#)
- [Thrombosis](#)
- [Venous Thrombosis](#)