

Recombinant Human PROS1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PROS1-5636H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PROS1 MS Standard C13 and N15-labeled recombinant protein (NP_000304) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a vitamin K-dependent plasma protein that functions as a cofactor for the anticoagulant 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. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein.
Molecular Mass	75.1 kDa
AA Sequence	MRVLGGRCGALLACLLLVPVSEANFLSKQQASQVLVRKRRANSLLLEETKQGNLER ECIEELCNKEEAREVFENDPETDYFYPKYLVLCLRSFQTGLFTAARQSTNAYPDLRSC VNAIPDQCSPLPCNEDGYMSCKDGKASFTCTCKPGWQGEKCEFDINECKDPSNING GCSQICDNTPGSYHCCKNGFVMLSNKKDCKDVDECSLKPSICGTAVCKNIPGDFE CECEGYRYNLKSKSCEDIDECSENMCAQLCVNYPGGYTCYCDGKKGFKLAQDQK

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SCEVVSVCPLNLDTKYELLYLAEQFAGVVLYLKFRLEISRFSAEFDRTYDSEGVIL
 YAESIDHSAWLLIALRGGKIEVQLKNEHTSKITTTGGDVINNGLWNMVSVEELEHSISIKI
 AKEAVMDINKPGPLFKPENGLLETKVYFAGFPRKVESELIKPINPRLDGCIRSWNLMK
 QGASGIKEIIQEKQNKHCLVTVEKGSYYPGSGIAQFHIDYNNVSSAEGWHVNVTLNIR
 PSTGTGVMLALVSGNNTVPFAVSLVDSTSEKSQDILLSVENTVIYRIQALS LCSDQQS
 HLEFRVNRNNLELSTPLKIETISHEDLQRQLAVLDKAMKAKVATYLGGLPDVPFSATP
 VNAFYNGCMEVNINGVQLDLDEAISKHNDIRAHSCPSVWKKTKNSTRTRPLEQKLIS
 EEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name **PROS1 protein S [Homo sapiens (human)]**

Official Symbol **PROS1**

Synonyms PROS1; protein S (alpha); PROS; vitamin K-dependent protein S; protein Sa; vitamin K-dependent plasma protein S; PSA; PS21; PS22; PS23; PS24; PS25; THPH5; THPH6;

Gene ID **5627**

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mRNA Refseq NM_000313

Protein Refseq NP_000304

MIM 176880

UniProt ID P07225

SDS-PAGE



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