

## Product datasheet for **TP302073L**

### Protein S (PROS1) (NM\_000313) Human Recombinant Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Recombinant protein of human protein S (alpha) (PROS1), 1 mg                 |
| Species:                              | Human  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >RC202073 protein sequence<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s) |

MRVLGGRCGALLACLLLVLPVSEANFLSKQQASQVLVRKRRANSLEETKQGNLERECIEELCNKEEARE  
VFENDPETDYFYPKYLVLCLRSFQTGLFTAARQSTNAYPDLRSCVNAIPDQCSPLPCNEDGYMSCKDGKAS  
FTCTCKPGWQGEKCEFDINECKDPSNINGGCSQICDNTPGSYHCCKNGFVMLSNNKKDCKDVDECSLKPS  
ICGTAVCKNIPGDFECEPEGYRYNLKSKCEDIDECEENMCAQLCVNYPGGYTCYCDGKKGFKLAQDQK  
SCEVSVCLPLNLDTKYELLYLAEQFAGVWLYLKFRLLPEISRFSAEFDFRITYDSEGVILYAESIDHSAWL  
LIALRGGKIEVQLKNEHTSKITGGDVINNGLWNNMVSVEELEHSISIKIAKEAVMDINKPGPLFKPENGL  
LETKVYFAGFPRKVESELIKPINPRLDGCIKRSWNLKMGASGIKEIIEKQKQKHCLVTVEKGSYYPGSGI  
AQFHIDYNNVSSAEGWHVNVTLNIRPSTGTGVMALVSGNNTVPFVAVSLVDSTSEKSDILLVENTVIY  
RIQALSCLSDQQSHLEFRVNRNLELSTPLKIETISHEDLQRQLAVLDKAMKAKVATYLGGLPDVPPFSAT  
PVNAFYNGCMEVNINGVQLDLDEAISKHNDIRAHSCPSVWKKTKNS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

|                |  |
|----------------|--|
| Tag:           | C-Myc/DDK  |
| Predicted MW:  | 72.6 kDa   |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:        | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| Preparation:   | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                     |
| Note:          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage:       | Store at -80°C.  |



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|                          |  |
|--------------------------|--|
| <b>Stability:</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  |
| <b>RefSeq:</b>           | <a href="#">NP_000304</a>  |
| <b>Locus ID:</b>         | 5627   |
| <b>UniProt ID:</b>       | <a href="#">P07225</a> , <a href="#">A0A0S2Z4K3</a>  |
| <b>RefSeq Size:</b>      | 3595   |
| <b>Cytogenetics:</b>     | 3q11.1   |
| <b>RefSeq ORF:</b>       | 2028   |
| <b>Synonyms:</b>         | PROS; PS21; PS22; PS23; PS24; PS25; PSA; THPH5; THPH6  |
| <b>Summary:</b>          | 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. [provided by RefSeq, Oct 2015] |
| <b>Protein Families:</b> | Druggable Genome, Secreted Protein   |
| <b>Protein Pathways:</b> | Complement and coagulation cascades  |

### Product images:



Coomassie blue staining of purified PROS1 protein (Cat# [TP302073]). The protein was produced from HEK293T cells transfected with PROS1 cDNA clone (Cat# [RC202073]) using MegaTran 2.0 (Cat# [TT210002]).