

Product datasheet for PH302073

Protein S (PROS1) (NM_000313) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PROS1 MS Standard C13 and N15-labeled recombinant protein (NP_000304)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202073
Predicted MW:	75.1 kDa
Protein Sequence:	>RC202073 protein sequence Red=Cloning site Green=Tags(s)

MRVLGGRCGALLACLLLVLPVSEANFLSKQQASQVLVRKRRANSLLEETKQGNLERECIEELCNKEEARE
VFENDPETDYFYPKYLVCLRSFQTGLFTAARQSTNAYPDLRSCVNAIPDQCSPLPCNEDGYMSCKDKGAS
FTCTCKPGWQGEKCEFDINECKDPSNINGGCSQICDNTPGSYHCCKNGFVMLSNKKDCKDVDECSLKPS
ICGTAVCKNIPGDFECECEGYRYNLKSKSCEDIDECSENMAQLCVNYPGGYTCYCDGKKGFKLAQDQK
SCEVVSVCLPLNLDTKYELLYLAEQFAGVVLKFRLEISRFSAEFDRTYDSEGVILYAESIDHSAWL
LIALRGGKIEVQLKNEHTSKITGGDVINGLWNMVSVEELEHSISIKIAKEAVMDINKPGPLFKPENGL
LETKVYFAGFPRKVESELIKPINPRLDGCIRSWNLMKQGASGIKEIIQEKQNKHCLVTVEKGSYYPGSGI
AQFHIDYNNVSSAEGWHVNVTLNIRPSTGTGVMLALVSGNNTVPFAVSLVDSTSEKSDILLVENTVIY
RIQALSLSQSDQSHLEFRVNRNLELSTPLKIETISHEDLQRQLAVLDKAMKAKVATYLGGLPDVPPFSAT
PVNAFYNGCMEVNINGVQLDLDEAISKHNDIRAHSCSPVWKKTKNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000304
RefSeq Size:	3595



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RefSeq ORF: 2028

Synonyms: PROS; PS21; PS22; PS23; PS24; PS25; PSA; THPH5; THPH6

Locus ID: 5627

UniProt ID: [P07225](#), [A0A0S2Z4K3](#)

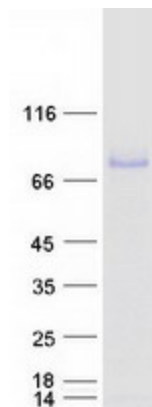
Cytogenetics: 3q11.1

Summary: 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]

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: 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]).