

Recombinant Human PROS1 Protein (Ala42-Ser676), N-His-SUMO tagged, Animal-free, Carrier-free

Cat. No. PROS1-255H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PROS1 Protein (Ala42-Ser676) with N-His-SUMO tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Ala42-Ser676
Description	PROS1, also known as protein S, is a vitamin K-dependent protein that plays a crucial role in the regulation of blood coagulation. It functions as a cofactor for protein C, another key player in the coagulation cascade. PROS1 acts as an anticoagulant by inhibiting the activity of certain clotting factors and promoting the breakdown of blood clots. It helps maintain the balance between clotting and anticoagulation, preventing the formation of excessive blood clots that can lead to thrombosis.
Form	Lyophilized
Molecular Mass	The protein has a calculated MW of 82.89 kDa. The protein migrates as 75 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 1 EU/μg of the protein by the LAL method.
Purity	>95% as determined by SDS-PAGE analysis.

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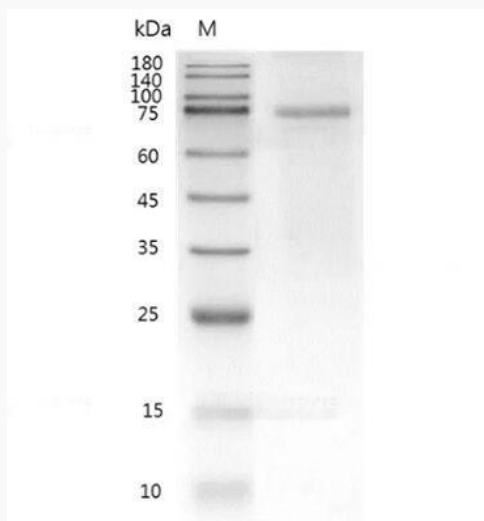
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.
GENE INFORMATION	
Gene Name	PROS1 protein S (alpha) [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
mRNA Refseq	NM_000313
Protein Refseq	NP_000304
MIM	176880
UniProt ID	P07225

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**SDS-PAGE analysis
of recombinant
human PROS1.**



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