

Human PROS1, His-SUMO Tag, E. coli

Catalog Number	LDG182PHE
Package	5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



Specifications

Species of Origin

Human

Affinity Tag

His-SUMO Tag (N-term)

Purity

>95% as determined by SDS-PAGE analysis.

Endotoxin Level

<1.0 EU per 1 µg of the protein by the LAL method.

Expression System

Escherichia coli

Storage Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Molecular weight

The protein has a calculated MW of 82.89 kDa.
The protein migrates as 75 kDa under reducing condition (SDS-PAGE analysis).

Form

Lyophilized

Background

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Background

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.

Uniprot ID

P07225

Synonyms

PROS, Vitamin K-dependent protein S

Sequence Note

Ala42-Ser676

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration of 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Image

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SDS-PAGE analysis of recombinant human PROS1.

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