

## Protein C Protein, Human, Recombinant (His)

### General Information

Synonyms:	PROC;APC;THPH4;protein C, inactivator of coagulation factors Va and VIIIa;PC;PROC1;THPH3
Protein Construction:	A DNA sequence encoding the human PROC (P04070) (Met1-Pro461) was expressed with a C-terminal polyhistidine tag. Predicted N terminal: Thr 19
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P04070
Molecular Weight:	51.5 kDa (predicted); 56-64 and 45 kDa (reducing condition, due to glycosylation)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

PROC (protein C gene) is a 62-kDa vitamin K-dependent plasma zymogen which, after activation to serine protease, plays an important role in the physiologic regulation of blood coagulation. Originally thought to be synthesized exclusively by the liver, recent reports have shown that PROC is also produced by many other cells including pancreatic islet β cells. Protein C a vitamin K-dependent plasma glycoprotein and is one of the body's natural anticoagulants circulating at 70 nmol/L as an inactive protease zymogen.

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