
Product Data Sheet

Product Name: PROC Human

Cat. No.: GP24228

Batch No.: 1

Product Data

Purity >98% Source HEK 293 cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms Vitamin K-dependent protein C; Anticoagulant protein C; Autoprothrombin IIA; Blood coagulation factor XIV; PROC; PC; APC; PROC1; THPH3; THPH4.

MWQLTSLLLFVATWGISGTPAPLDSVFSSSERAHQVLRIRKRANSFLEELRHSSLERE
 CIEEICDFEEAKEIFQNVDDTLAFWSKHVDGDQCLVLPLEHPCASLCCGHGTCIDGIG
 SFSCDCRSGWEGRFCQREVSFLNCSLDNGGCTHYCLEEVGWRRRCSCAPGYKLG
 DLLQCHPAVKFPCGRPWKRMKKRSHLKRDTEDQEDQVDPRLIDGKMTRRGDSPW

Amino Acid Sequence QVLLDSKKKLACGAVLIHPSWVLTAAHCMDESKLLVRLGEYDLRRWEKWELDLDIK
 EVFVHPNYSKSTTDNDIALHQAQATLSQTIVPICLPDSGLAERELNQAQOETLVTGW
 GYHSSREKEAKRNRTFVLNFIKIPVPHNECSEVMSNMVSENMLCAGILGDRQDACE
 GDSGGPMVASFHGTWFLVGLVSWGEGCGLLHNYGVYTKVSRYL DWIHGHIRDKEAP
 QKSWAPEFH HHHHHHHH. The first 32 amino acids are predicted as signal peptide.

Formulation PROC protein is supplied in 50mM Tris pH 7.5, 300mM NaCl and 10% Glycerol.

Introduction

Protein C (PROC) is a vitamin K-dependent serine protease which regulates blood coagulation by inactivating factors Va and VIIIa in the presence of calcium ions and phospholipids. PROC is cleaved to its activated form by the thrombin-thrombomodulin complex. This activated form, which contains a serine protease domain, functions in degradation of the activated forms of coagulation factors V and VIII. Mutations in the PROC gene are linked with thrombophilia due to protein C deficiency, neonatal purpura fulminans, and recurrent venous thrombosis. Protein C is synthesized as a single chain precursor, which is cleaved into a light and a heavy chain held together by a disulfide bond. The enzyme is at that time activated by thrombin, which cleaves a

Caution: Product has not been fully validated for medical applications. For research use only.

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tetradecapeptide from the amino end of the heavy chain; this reaction, which occurs at the surface of endothelial cells, is intensely promoted by thrombomodulin.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Background

PROC Human Recombinant full length protein (33-461 aa) produced in HEK 293 cells with a C-terminal His-tag, having a molecular weight of 72kDa. Human PROC is purified by proprietary chromatographic techniques.

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