

Product Data Sheet

Product Name: PCSK9 Human
 Cat. No.: GP24142
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK 293.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms Proprotein Convertase Subtilisin/Kexin Type 9; NARC1; Subtilisin/Kexin-Like Protease PC9; HCHOLA3; LDLCQ1; NARC-1; FH3; PC9; Convertase Subtilisin/Kexin Type 9 Preproprotein; Hypercholesterolemia; Autosomal Dominant 3; Neural Apoptosis Regulated Convertase 1; Neural Apoptosis-Regulated Convertase 1; Proprotein Convertase 9; EC 3.4.21.111; EC 3.4.21; EC 3.4.21; PCSK9.

Amino Acid Sequence

QEDEDGDYEE LVLALRSEED GLAEAPEHGT TATFHRC AKD PWRLPGTYVV
 VLKEETHLSQ SERTARRLQA QAARRGYLTK ILHVFHGLLP GFLVKMSGDL
 LELALKLPHV DYIEEDSSVF AQSIPWNLER ITPPRYRADE YQPPDGGSLV
 EVYLLDTSIQ SDHREIEGRV MVTDFENVPE EDGTRFHRQA SKCDSHGTHL
 AGVVSGRDAG VAKGASMRS L RVLNCQGGKT VSGTLIGLEF IRKSQLVQPV
 GPLVVLLPLA GGYSRVLNAA CQRLARAGVV LVTAAGNFRD DACLYSPASA
 PEVITVGATN AQDQPVTLGT LGTNFGRCVD LFAPGEDIIG ASSDCSTCFV
 SQSGTSQAAA HVAGIAAMML SAEPELTLAE LRQR LIHFSA KDVINEAWFP
 EDQRVLT PNL VAALPPSTHG AGWQLFCRTV WSAHSGPTRM ATAVARCAPD
 EELLSCSSFS RSGKRRGERM EAQGGKLVCR AHNAFGGEGV YAIARCCLLP
 QANCSVHTAP PAEASMGTRV HCHQQGHVLT GCSSHWEVED LGTHKPPVLR
 PRGQPNQCVG HREASIHASC CHAPGLECKV KEHGIPAPQE QVTVACEEGW
 TLTGCSALPG TSHVLGAYAV DNTCVVRSRD VSTTGSTSEG AVTAVAICCR
 SRHLAQASQE LQH HHHHHHHH HH.

Formulation PCSK9 filtered (0.4 μ m) solution at a concentration of 0.25-0.7mg/ml in phosphate buffered saline and 20 % (w/v) glycerol.

Introduction

Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9) belongs to the subtilisin-like

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

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proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking via regulated or constitutive branches of the secretory pathway. PCSK9 protein goes through an autocatalytic processing event with its prosegment in the ER and is constitutively secreted as an inactive protease into the extracellular matrix and trans-Golgi network. PCSK9 is expressed in the liver, intestine and kidney tissues and escorts specific receptors for lysosomal degradation. PCSK has a role in cholesterol and fatty acid metabolism. PCSK9 gene mutations are linked with autosomal dominant familial hypercholesterolemia.

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. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

PCSK9 Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (Gln31-Gln692) containing a total of 671 amino acids, having a calculated molecular mass of 72.4kDa and fused to a 10 aa His tag at C-Terminus.

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