Active Recombinant Human PCSK9 Protein, His-tagged

Cat. No. PCSK9-005H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PCSK9 protein (31-692) with a N-terminal His-tag was expressed in HEK293 overexpression system
Species	Human
Source	HEK293
ProteinLength	31-692
Description	This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. The encoded protein undergoes 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. It is expressed in liver, intestine and kidney tissues and escorts specific receptors for lysosomal degradation. It plays a role in cholesterol and fatty acid metabolism. Mutations in this gene have been associated with autosomal dominant familial hypercholesterolemia. Alternative splicing results in multiple transcript variants.
Bio-activity	Qualitative biological assay-reduces uptake of LDL-DyLight™ by >30% in Huh7 cells at concentrations above 5 g/ml
Molecular Mass	71 kDa

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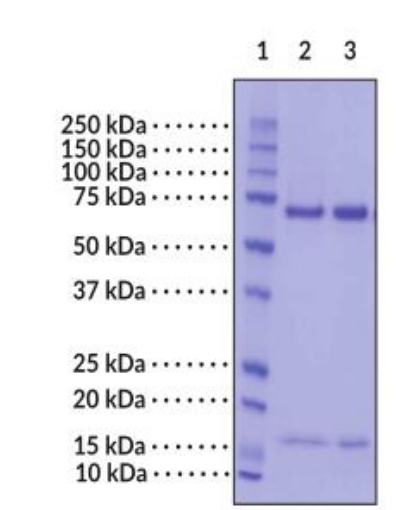
Purity	≥90% estimated by SDS-PAGE
Stability	≥ 274 days
Storage	-20 centigrade
Storage Buffer	Lyophilized from PBS, pH 7.4, with 30% sucrose
Shipping	Wet ice in continental US, may vary elsewhere.

GENE INFORMATION

Gene Name	PCSK9 proprotein convertase subtilisin/kexin type 9 [Homo sapiens (human)]
Official Symbol	PCSK9
Synonyms	PCSK9; proprotein convertase subtilisin/kexin type 9; FH3; PC9; FHCL3; NARC1; LDLCQ1; NARC-1; HCHOLA3; proprotein convertase subtilisin/kexin type 9; convertase subtilisin/kexin type 9 preproprotein; neural apoptosis regulated convertase 1; subtilisin/kexin-like protease PC9; EC 3.4.21.
Gene ID	255738
mRNA Refseq	NM_174936
Protein Refseq	NP_777596
MIM	607786
UniProt ID	Q8NBP7

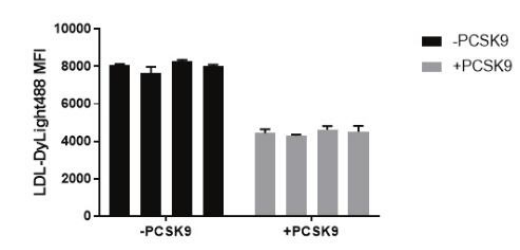
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SDS-PAGE Analysis of PCSK9



Lane 1: MW Markers
Lane 2: PCSK9 (1 μg)
Lane 3: PCSK9 (2 μg)

PCSK9 inhibits LDL uptake



On four separate plates Huh7 cells were plated and treated with or without 5 μg/ml PCSK9 in media. Sixteen hours later, LDL-DyLight™ 488 was added. After a four-hour incubation the cells were washed, trypsanized, and analyzed by flow cytometry.

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