

## Active Recombinant Human PCSK9 Protein, His-tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PCSK9 protein (31-692) with a N-terminal His-tag was expressed in HEK293 overexpression system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 31-692                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | <p>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.</p> |
| <b>Bio-activity</b>     | Qualitative biological assay-reduces uptake of LDL-DyLight™ by >30% in Huh7 cells at concentrations above 5 µg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | 71 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

## GENE INFORMATION

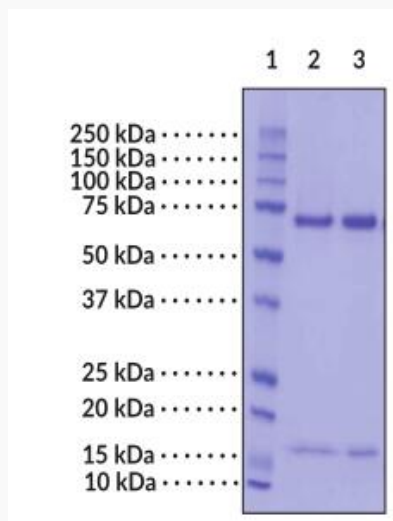
|                        |                                                                                                                                                                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PCSK9 proprotein convertase subtilisin/kexin type 9 [ Homo sapiens (human) ]                                                                                                                                                                                                                    |
| <b>Official Symbol</b> | PCSK9                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>        | 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. |
| <b>Gene ID</b>         | 255738                                                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>     | NM_174936                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>  | NP_777596                                                                                                                                                                                                                                                                                       |
| <b>MIM</b>             | 607786                                                                                                                                                                                                                                                                                          |
| <b>UniProt ID</b>      | Q8NBP7                                                                                                                                                                                                                                                                                          |

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### SDS-PAGE Analysis of PCSK9

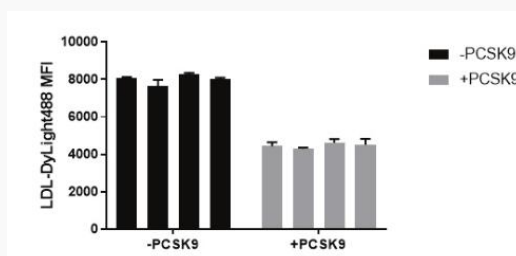


Lane 1: MW Markers

Lane 2: PCSK9 (1 g)

Lane 3: PCSK9 (2 g)

### PCSK9 inhibits LDL uptake



On four separate plates Huh7 cells were plated and treated with or without 5 g/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.