

Active Recombinant Human PCSK9, His-tagged, Biotinylated

Cat. No. PCSK9-186H Lot. No. (See product label)

SPECIFICATION

Product Overview	Biotinylated Human PCSK9 Protein, Superior Sensitivity (Biotinylated PCSK9) Gln 31 - Gln 692 (AAI66619), was chemically labeled with specially optimized long spacer biotin reagent based on rhPCSK9 Protein, which was produced in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	31-692 a.a.
Description	<p>Proprotein convertase subtilisin/kexin type 9 (PCSK9), is an enzyme which in humans is encoded by the PCSK9 gene. This gene encodes a proprotein convertase belonging to the proteinase K subfamily of the secretory subtilase family. This protein plays a major regulatory role in cholesterol homeostasis. PCSK9 binds to the epidermal growth factor-like repeat A (EGF-A) domain of the low-density lipoprotein receptor (LDLR), inducing LDLR degradation. PCSK9 may also have a role in the differentiation of cortical neurons. Mutations in this gene have been associated with a rare form of autosomal dominant familial hypercholesterolemia (HCHOLA3). The primary amine of rhPCSK9 was chemically labeled by specially optimized long spacer biotin reagent without decreasing its bioactivity. Biotinylated PCSK9 protein, Superior Sensitivity has been used successfully for easy detection in ELISA, dot blot or Western blot, immunohistochemistry applications using streptavidin or avidin-conjugated probes. Biotin reagent with optimized long spacer provides improved</p>

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	<p>biotin exposure and less steric hindrance, thus giving superior sensitivity and response when detection with streptavidin. Biotin and other reactive related chemicals have been removed thoroughly by desalting after reaction termination.</p>
Predicted N Terminal	Gln 31
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.
Bio-activity	Measured by its biotin incorporate rate in a ELISA assay. Immobilized Biotinylated rhPCSK9 at different concentration (100 µL/well), when the concentration is 0.5-50 ng/mL, Biotinylated rhPCSK9 can be detected by HRP*-Labeled Streptavidin with a linear range.
Molecular Mass	Biotinylated rhPCSK9 is fused with polyhistidine tag at the C-terminus, and has a calculated MW of 75.1 kDa. The predicted N-terminus is Gln 31. DTT-reduced Protein migrates as 18 kDa and 67 kDa in SDS-PAGE due to glycosylation and proteolytic digestion.
Endotoxin	Less than 1.0 EU per µg of the Biotinylated rh PCSK9 by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Applications	Biotin Labeled Protein
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).
Conjugation	Biotin

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GENE INFORMATION

Gene Name	PCSK9 proprotein convertase subtilisin/kexin type 9 [Homo sapiens]
Official Symbol	PCSK9
Synonyms	PCSK9; proprotein convertase subtilisin/kexin type 9; HCHOLA3, hypercholesterolemia, autosomal dominant 3; FH3; NARC 1; NARC1; NARC-1; HCHOLA3;
Gene ID	353175
MIM	607786
UniProt ID	Q8NBP7
Chromosome Location	1p34.1-p32

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