

## PCSK9 Protein, Human, Recombinant (His & HA & Avi), Biotinylated

### General Information

Synonyms:	Subtilisin/Kexin-Like Protease PC9;PCSK9;NARC1;Proprotein Convertase Subtilisin/Kexin Type 9;PC9;Neural Apoptosis-Regulated Convertase 1;Proprotein Convertase 9;NARC-1
Protein Construction:	Gln31-Gln692(Val474Ile,Gly670Glu)
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8NBP7
Molecular Weight:	18&58-70&90-150 KDa (reducing condition)
AA Sequence:	Gln31-Gln692(Val474Ile,Gly670Glu)

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 50 mM HEPES, 150 mM NaCl, 20% Glycerol, pH 7.4.

### Preparation and Storage

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Human Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9) is a secretory subtilase belonging to the proteinase K subfamily. PCSK9 is synthesized as a soluble zymogen that undergoes autocatalytic intramolecular processing in the ER, the pro domain and mature chain secrete together through noncovalent interactions. PCSK9 binds with low-density lipoprotein receptor (LDLR) and plays a major regulatory role in cholesterol homeostasis. Inhibition of PCSK9 function by preventing PCSK9/LDLR interaction is currently being explored as a means of lowering cholesterol levels. PCSK9 also binds to apolipoprotein receptor 2 (ApoER2), and play a role in the neural development.

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