

Recombinant Human PCSK9 Protein (D374Y, His Tag)

Catalog Number: PKSH032947



Note: Centrifuge before opening to ensure complete recovery of vial contents.

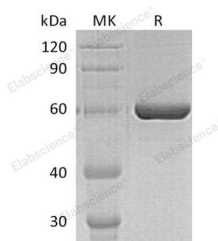
Description

| | |
|------------------------------------|--|
| Synonyms | Proprotein Convertase Subtilisin/Kexin Type 9; Neural Apoptosis-Regulated Convertase 1; NARC-1; Proprotein Convertase 9; PC9; Subtilisin/Kexin-Like Protease PC9; PCSK9; NARC1 |
| Species | Human |
| Expression Host | HEK293 Cells |
| Sequence | Gln31-Gln692(Asp374Tyr, Val474Ile, Gly504Arg, Gly670Glu) |
| Accession | Q8NBP7 |
| Calculated Molecular Weight | 15-18&60-80 kDa |
| Observed molecular weight | 13.8&58.2 kDa |
| Tag | C-His |
| Bioactivity | Immobilized Recombinant Human LDL R (C-Fc) at 5µg/ml (100 µl/well) can bind Recombinant Human PCSK9 . The ED ₅₀ of Recombinant Human PCSK9 is 39.17 ng/ml. |

Properties

| | |
|-----------------------|---|
| Purity | > 90 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per µg of the protein as determined by the LAL method. |
| Storage | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles. |
| Shipping | This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C. |
| Formulation | Supplied as a 0.2 µm filtered solution of 50mM HEPES, 150mM NaCl, 20% Glycerol, pH 7.4. |
| Reconstitution | Not Applicable |

Data



> 90 % as determined by reducing SDS-PAGE.

Background

Recombinant Human Proprotein Convertase Subtilisin/Kexin Type 9/PCSK9 (D374Y) is a gain of function mutant of human PCSK9 protein. Human 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 are secreted together through noncovalent interactions. PCSK9 binds with low-density lipoprotein receptor (LDLR) and it 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

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apolipoprotein receptor 2 (ApoER2), and play a role in the neural development.

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