

Recombinant Human PCSK9 Protein (His Tag)

Catalog Number: PKSH032944

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

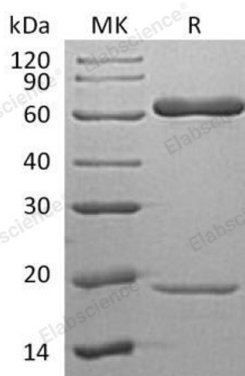
Description

Species	Human
Source	HEK293 Cells-derived Human PCSK9 protein Gln31-Gln692(Val474Ile,Gly670Glu), with an C-terminal His
Calculated MW	13.77&58.2 kDa
Observed MW	19&60 kDa
Accession	Q8NBP7
Bio-activity	Loaded Biotinylated Human LDL R-Avi-His(PKSH032711) on SA Biosensor, can bind Human APCSK9-His(PKSH032944) with an affinity constant of 0.64 μ M as determined in BLI assay.

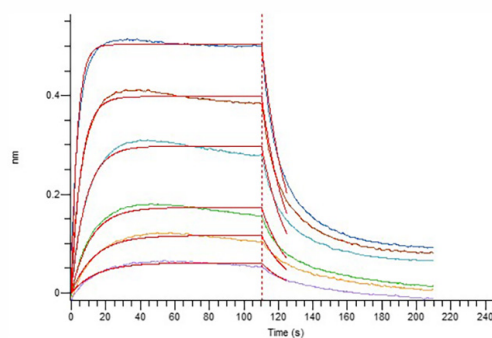
Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per μ g 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 μ m filtered solution of 20mM NaH ₂ PO ₄ , 150mM NaCl, 0.1M Arginine, 0.1M Glu, 0.01% Tween20, pH 7.4.

Data



> 95 % as determined by reducing SDS-PAGE.



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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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