Data Sheet (Cat.No.TMPY-00895)

TargetMol

PCSK9 Protein, Human, Recombinant (His)

General Information

Synonyms:	Proprotein convertase subtilisin/kexin type 9;PCSK9;NARC1
Protein Construction:	Gln31-Gln692
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8NBP7-1
Molecular Weight:	Due to autocatalytic cleavage, the protein release the pro-form (59 kDa) and mature form (14 kDa). Due to glycosylation, the protein migrates to 65-68 kDa (pro-form) and 15kDa (mature form) based on Bis-Tris PAGE result.

QC Testing

Biological Activity:	Immobilized Human PCSK9, His Tag at 2 μg/ml (100 μl/Well) on the plate. Dose response curve for Anti-PCSK9 antibody, hFc Tag with the EC50 of 0.13 μg/ml determined by ELISA (QC Test). Human LDLR, His Tag immobilized on CM5 Chip can bind Human PCSK9, His Tag with an affinity constant of 0.35 nM as determined in SPR assay (Biacore T200).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22μm filtered solution in 20mM PB, 300mM NaCl, 10% 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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