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# Datasheet for ABIN2870601 PCSK9 Protein (AA 30-691) (His tag)





### Overview

Quantity:	50 µg
Target:	PCSK9
Protein Characteristics:	AA 30-691
Origin:	Hamster
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PCSK9 protein is labelled with His tag.

## Product Details

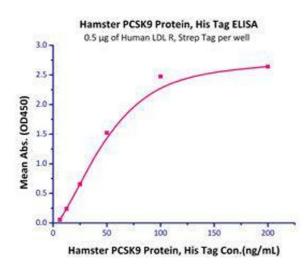
Sequence:	AA 30-691
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of
	73 kDa. The protein migrates as 18 kDa and 65 kDa under reducing (R) condition (SDS-PAGE)
	due to glycosylation and proteolytic digestion.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per $\mu g$ by the LAL method.
Target Details	
Target:	PCSK9
Alternative Name:	PCSK9 (PCSK9 Products)

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# Target Details

Background:	Proprotein convertase subtilisin/kexin type 9 (PCSK9) is also known as NARC1 (neural
	apoptosis regulated convertase), is a newly identified subtilase belonging to the peptidase S8
	subfamily. Mouse PCSK9 is synthesized as a soluble zymogen, and undergoes autocatalytic
	intramolecular processing in the endoplasmic reticulum, resulting in the cleavage of its
	propeptide that remains associated with the secreted active enzyme with a broad alkaline pH
	optimum. 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).
Molecular Weight:	13.9 kDa and 59.0 kDa
UniProt:	G3GTK5
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

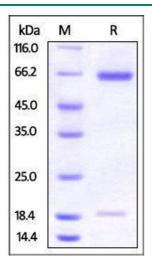
### Images



#### **Binding Studies**

**Image 1.** Immobilized Human LDL R (High Purity) Protein, Strep Tag (Cat# LDR-H5281) at 5  $\mu$ g/mL (100  $\mu$ I/well) can bind Hamster PCSK9 Protein, His Tag (Cat# PC9-H52E4) with a linear range of 6-50 ng/mL.

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#### SDS-PAGE

**Image 2.** Hamster PCSK9, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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