

## Product Data Sheet

## PCSK9 Protein, Macaca nemestrina (HEK293, His)

Cat. No.:	HY-P70966
Synonyms:	Proprotein Convertase Subtilisin/Kexin Type 9; Proprotein Convertase 9; PC9; Subtilisin/Kexin- Like Protease PC9; PCSK9
Species:	Cynomolgus
Source:	HEK293
Accession:	A8T662 (Q31-Q152&S153-Q692)
Gene ID:	105495119
Molecular Weight:	(16-21)&(55-77) kDa

## PROPERTIES

AA Sequence					
AA Sequence	QEDEDGDYEE	LVLALRSEED	GLADAPEHGA	ТАТҒН Қ С А Қ D	
	PWRLPGTYVV	VLKEETHRSQ	SERTARRLQA	QAARRGYLTK	
	ILHVFHHLLP	GFLVKMSGDL	LELALKLPHV	DYIEEDSSVF	
	A Q & S I P W N L E				
	RIT	PARYRADEYQ	PPKGGSLVEV	YLLDTSIQSD	
	HREIEGRVMV	TDFESVPEED	GTRFHRQASK	C D S H G T H L A G	
	V V S G R D A G V A	KGAGLRSLRV	LNCQGKGTVS	GTLIGLEFIR	
	KSQLVQPVGP	LVVLLPLAGG	Y S R V F N A A C Q	RLARAGVVLV	
	TAAGNFRDDA	CLYSPASAPE	VITVGATNAQ	DQPVTLGTLG	
	TNFGRCVDLF	APGEDIIGAS	SDCSTCFVSR	S G T S Q A A A H V	
	AGIAAMMLSA	EPELTLAELR	QRLIHFSAKD	VINEAWFPED	
	QRVLTPNLVA	ALPPSTHRAG	WQLFCRTVWS	АНЅGPTRMAT	
	AVARCAQDEE	LLSCSSFSRS	GKRRGERIEA	QGGKRVCRAH	
	NAFGGEGVYA	IARCCLLPQV	N C S V H T A P P A	G A S M G T R V H C	
	HQQGHVLTGC	SSHWEVEDLG	THKPPVLRPR	G Q P N Q C V G H R	
	EASIHASCCH	APGLECKVKE	HGIPAPQEQV	IVACEDGWTL	
	TGCSALPGTS	HVLGAYAVDN	TCVVRSRDVS	ΤΤGSTSEEAV	
	AAVAICCRSR	H L V Q A S Q E L Q			
<b>Biological Activity</b>	The entrume activity of thi	c rocombinant protoin is tos	ting in progress, we cannot	offer a guarantee vet	
BIOlOgical Activity	The enzyme activity of the	s recombinant protein is tes	sting in progress, we cannot	oner a guarantee yet.	
Appearance	Solution.				
Appearance	50101011.				
Formulation	Supplied as a 0.2 um filter	ed solution of 20 mM PB 15	0 mM NaCl 0 1 M Arg 0 1 M	Glu, 20% glycerol, 0.01% tween20, 5%	
	Trehalose, pH 6.0.			old, 2070 glycerol, 0.0170 tween20, 070	
	,				
Endotoxin Level	<1 EU/µg, determined by LAL method.				
	/ [-0, [-0, [-0, [-0, [-0, [-0, [-0, [-0,				
Reconsititution	N/A				
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for				
			inter opening. It is reco		

	extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.
DESCRIPTION	
Background	PCSK9 protein plays a crucial role in maintaining the balance of plasma cholesterol levels. It interacts with low-density lipoprotein receptor family members such as LDLR, VLDLR, LRP1/APOER, and LRP8/APOER2, promoting their degradation within acidic compartments of the cell. Through a non-proteolytic mechanism, it enhances the degradation of hepatic LDLR via a clathrin LDLRAP1/ARH-mediated pathway, preventing its recycling from endosomes to the cell surface and directing it to lysosomes for degradation. Additionally, PCSK9 can induce ubiquitination of LDLR, leading to its subsequent degradation. It also inhibits the intracellular degradation of APOB, independent of LDLR, by affecting the autophagosome/lysosome pathway. Moreover, PCSK9 is involved in the early secretory pathway by disposing of non-acetylated intermediates of BACE1. It further regulates epithelial Na(+) channel (ENaC)-mediated Na(+) absorption by reducing ENaC surface expression, primarily through increased proteasomal degradation. Finally, PCSK9 modulates neuronal apoptosis by regulating the levels of LRP8/APOER2 and related anti-apoptotic signaling pathways.

Caution: Product has not been fully validated for medical applications. For research use only.

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