

Product Data Sheet

PCSK9 Protein, Mouse (660a.a, HEK293, His)

Cat. No.:	HY-P73339
Synonyms:	Proprotein convertase subtilisin/kexin type 9; NARC-1; PC9; PCSK9
Species:	Mouse
Source:	HEK293
Accession:	Q80W65 (Q35-Q694)
Gene ID:	100102
Molecular Weight:	Approximately 19 & 65 kDa

PROPERTIES

AA Sequence					
	MGTHCSAWLR				
	W	PLLPLLPPLL	LLLLLCPTG	AGAQDEDGDY	
	EELMLALPSQ	EDGLADEAAH	VATATFRRCS	KEAWRLPGTY	
	IVVLMEETQR	LQIEQTAHRL	QTRAARRGYV	IKVLHIFYDL	
	F P G F L V K M S S	DLLGLALKLP	HVEYIEEDSF	VFAQSIPWNL	
	ERIIPAWHQT	EEDRSPDGSS	QVEVYLLDTS	IQGAHREIEG	
	RVTITDFNSV	PEEDGTRFHR	Q A S K C D S H G T	HLAGVVSGRD	
	AGVAKGTSLH	SLRVLNCQGK	GTVSGTLIGL	EFIRKSQLIQ	
	PSGPLVVLLP	LAGGYSRILN	AACRHLARTG	VVLVAAAGNF	
	RDDACLYSPA	SAPEVITVGA	T N A Q D Q P V T L	GTLGTNFGRC	
	VDLFAPGKDI	IGASSDCSTC	F M S Q S G T S Q A	AAHVAGIVAR	
	MLSREPTLTL	AELRQRLIHF	STKDVINMAW	FPEDQQVLTP	
	NLVATLPPST	HETGGQLLCR	ТVWSAHSGPT	RTATATARCA	
	PEEELLSCSS	FSRSGRRRGD	WIEAIGGQQV	CKALNAFGGE	
	GVYAVARCCL	VPRANCSIHN	TPAARAGLET	Н V Н С Н Q К D Н V	
	LTGCSFHWEV	EDLSVRRQPA	LRSRRQPGQC	VGHQAASVYA	
	SCCHAPGLEC	KIKEHGISGP	SEQVTVACEA	G W T L T G C N V L	
	P G A S L T L G A Y	SVDNLCVARV	HDTARADRTS	GEATVAAAIC	
	CRSRPSAKAS	WVQ			
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BIOLOGICALACTIVILY	Measured by its binding a	bility in a functional ELISA. I	mmobilized mouse PCSK9 a	t 10 μg/mL (100 μL/well) can bind hum	ar
	LDLR and the EC ₅₀ is 0.12	μg/IIIL.			
Appearance	Lyophilized powder				
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Formulation	I vophilized from a 0.2 um	filtered solution of 15 mM T	ris. 90 mM NaCL 50% Glycen	ol. pH 7.5. Normally 5 % - 8 % trebalos	e.
	mannitol and 0.01% Twee	en 80 are added as protectan	its before lyophilization.	-,,	-,
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Endotoxin Level	<1 EU/µg, determined bv	LAL method.			
Reconsititution	It is not recommended to	reconstitute to a concentrat	tion less than 100 μg/mL in d	dH ₂ O.	
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Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.
DESCRIPTION	
Background	The PCSK9 protein plays a pivotal role in the intricate regulation of plasma cholesterol homeostasis. It engages with

levels and related anti-apoptotic signaling pathways.

members of the low-density lipid receptor family, including low-density lipoprotein receptor (LDLR), very low-density lipoprotein receptor (VLDLR), apolipoprotein E receptor (LRP1/APOER), and apolipoprotein receptor 2 (LRP8/APOER2), facilitating their degradation within intracellular acidic compartments. Operating through a non-proteolytic mechanism, PCSK9 enhances the degradation of hepatic LDLR via a clathrin LDLRAP1/ARH-mediated pathway and may impede LDLR recycling from endosomes to the cell surface, directing it to lysosomes for degradation. Moreover, PCSK9 induces

ubiquitination of LDLR, leading to subsequent degradation, and inhibits the intracellular degradation of APOB through the autophagosome/lysosome pathway, independent of LDLR. Additionally, PCSK9 is implicated in the disposal of non-acetylated intermediates of BACE1 in the early secretory pathway, hinders epithelial Na(+) channel (ENaC)-mediated Na(+) absorption by increasing its proteasomal degradation, and modulates neuronal apoptosis by regulating LRP8/APOER2

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

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