

Product Data Sheet

PCSK9 Protein, Human (HEK293, C-His)

Cat. No.:	HY-P70545A
Synonyms:	Proprotein Convertase Subtilisin/Kexin Type 9; Neural Apoptosis-Regulated Convertase 1; NARC-1; Proprotein Convertase 9; PC9; Subtilisin/Kexin-Like Protease PC9; PCSK9; NARC1
Species:	Human
Source:	HEK293
Accession:	Q8NBP7 (Q31-Q692)
Gene ID:	255738
Molecular Weight:	approximately 20.33 & 59 kDa

PROPERTIES

AA Sequence						
	QEDEDGDYE	ELVLALRSE	EDGLAEAPE	HGTTATFHR		
	CAKDPWRLP	GTYVVVLKE	ETHLSQSER	TARRLQAQA		
	ARRGYLTKI	LHVFHGLLP	GFLVKMSGD	LLELALKLP		
	HVDYIEEDS	SVFAQSIPW	NLERITPPR	YRADEYQPP		
	DGGSLVEVY	LLDTSIQSD	HREIEGRVM	VTDFENVPE		
	EDGTRFHRQ	ASKCDSHGT	HLAGVVSGR	DAGVAKGAS		
	MRSLRVLNC	QGKGTVSGT	LIGLEFIRK	SQLVQPVGP		
	LVVLLPLAG	GYSRVLNAA	CQRLARAGV	VLVTAAGNF		
	RDDACLYSP	ASAPEVITV	GATNAQDQP	VTLGTLGTN		
	FGRCVDLFA	PGEDIIGAS	SDCSTCFVS	QSGTSQAAA		
	HVAGIAAMM	LSAEPELTL	AELRQRLIH	FSAKDVINE		
	AWFPEDQRV	LTPNLVAAL	P P S T H G A G W	QLFCRTVWS		
	AHSGPTRMA	TAVARCAPD	EELLSCSSF	SRSGKRRGE		
	RMEAQGGKL	VCRAHNAFG	GEGVYAIAR	CCLLPQANC		
	S V H T A P P A E	ASMGTRVHC	HQQGHVLTG	CSSHWEVED		
	LGTHKPPVL	R P R G Q P N Q C	VGHREASIH	ASCCHAPGL		
	ECKVKEHGI	PAPQEQVTV	ACEEGWTLT	GCSALPGTS		
	HVLGAYAVD	NTCVVRSRD	VSTTGSTSE	GAVTAVAIC		
	CRSRHLAQA	SQELQ				
	Market and the first definition of					
Biological Activity	Measured by its ability to inhibit the proliferation of HT-29 human colon cancer cells. The ED_{50} for this effect is 6.358 ng/mL					
	corresponding to a speci	fic activity is 1.573×10° Unit/	'mg.			
Annoaranco	Luophilized powder					
Арреагансе	Lyophilized powder.					
Formulation	Lyophilized from a 0.2 ur	n filtered solution of 20 mM	PB 150 mM NaCl nH 7 /			
Tormatation	Lyophilized nonra 0.2 µ		r D,130 mm Nact, pri 7.4.			
Endotoxin Level	<1 ELL/ug determined by	I Al method				
Endotoxin Level	·I L0/μg, acterninea by	LAL method.				
Reconsititution	It is not recommended to	reconstitute to a concentra	tion less than 100 ug/mL in	ddH20. For long term storage it is		
Reconstitution	recommended to add a carrier protein (0.1% BSA_5% HSA_10% FBS or 5% Trehalose)					
	recommended to add a d	anie protein (0.170 BSA, 57	113/, 10/01 03 01 3/0 Hella			

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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	PCSK9 protein emerges as a pivotal regulator in the intricate orchestration of plasma cholesterol homeostasis. Demonstrating its influence on low-density lipid receptor family members, including the low-density lipoprotein receptor (LDLR), very low-density lipoprotein receptor (VLDLR), apolipoprotein E receptor (LRP1/APOER), and apolipoprotein receptor 2 (LRP8/APOER2), PCSK9 facilitates their degradation within intracellular acidic compartments. Employing a non- proteolytic mechanism, it enhances the hepatic LDLR degradation through a clathrin LDLRAP1/ARH-mediated pathway, possibly impeding LDLR recycling and directing it toward lysosomal degradation. Moreover, PCSK9 exhibits LDLR- independent inhibition of APOB intracellular degradation via the autophagosome/lysosome pathway and plays a role in the

disposal of non-acetylated BACE1 intermediates in the early secretory pathway. Notably, it regulates epithelial Na(+) channel (ENaC)-mediated Na(+) absorption by augmenting ENaC proteasomal degradation, and influences neuronal apoptosis through the modulation of LRP8/APOER2 levels and associated anti-apoptotic signaling pathways.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA