Proteins



Product Data Sheet

PCSK9 Protein, Rhesus Macaque (HEK293, His)

Cat. No.: HY-P75958

Synonyms: Proprotein convertase subtilisin/kexin type 9; NARC-1; PC9; PCSK9

Species: Rhesus Macaque

Source: HEK293

Accession: A8T666 (Q31-Q692)

Gene ID: 717147

Molecular Weight: Approximately 20&62 kDa

PROPERTIES

AA Sequence				
	QEDEDGDYEE	LVLALRSEED	GLADAPEHGA	TATFHRCAKD
	PWRLPGTYVV	VLKEETHRSQ	SERTARRLQA	QAARRGYLTK
	ILHVFHHLLP	GFLVKMSGDL	LELALKLPHV	DYIEEDSSVF
	AQSIPWNLER	ITPARYRADE	YQPPKGGSLV	EVYLLDTSIQ
	SDHREIEGRV	MVTDFESVPE	EDGTRFHRQA	SKCDSHGTHL
	AGVVSGRDAG	VAKGAGLRSL	RVLNCQGKGT	VSGTLIGLEF
	IRKSQLVQPV	GPLVVLLPLA	$G\;G\;Y\;S\;R\;V\;F\;N\;A\;A$	CQRLARAGVV
	LVTAAGNFRD	DACLYSPASA	PEVITVGATN	AQDQPVTLGT
	LGTNFGRCVD	LFAPGEDIIG	ASSDCSTCFV	SRSGTSQAAA
	HVAGIAAMML	SAEPELTLAE	LRQRLIHFSA	KDVINEAWFP
	EDQRVLTPNL	VAALPPSTHR	AGWQLFCRTV	WSAHSGPTRM
	ATAVARCAQD	EELLSCSSFS	RSGKRRGERI	EAQGGKRVCR
	AHNAFGGEGV	YAIARCCLLP	QVNCSVHTAP	PAGASMGTRV
	НСНQQGНVLТ	GCSSHWEVED	LGTHKPPVLR	PRGQPNQCVG
	HREASIHASC	CHAPGLECKV	KEHGIPAPQE	QVIVACEDGW
	TLTGCSPLPG	TSHVLGAYAV	DNTCVVRSRD	VSTTGSTSKE
	AVAAVAICCR	SRHLVQASQE	L Q	
Biological Activity	Immobilized Rhesus PCSK9 at 5 μg/mL (100 μL/well) can bind Biotinylated rmLDLR. The ED ₅₀ for this effect is 224.2 ng/m			
210108100111111	THINDSHIZE A KIESUST CONSULCO KEY WELLY WELLY CUIT BIND BIOCHTY LACE THE EDSO TOT CHIES CHECK IS ZZ 1.2 Hg/III			
Appearance	Lyophilized powder			
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.			
Endotoxin Level	<1 EU/μg, determined by LAL method.			
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$ in ddH $_2$ O. For long term storage it is			
	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).			
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). I			
	recommended to freeze aliquots at -20°C or -80°C for extended storage.			
		1		

Page 1 of 2

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

PCSK9 Protein plays a crucial role in maintaining the balance of cholesterol levels in the blood. It binds to several receptors involved in lipid metabolism, including LDLR, VLDLR, LRP1/APOER, and LRP8/APOER2, and promotes their degradation in acidic compartments inside cells. It enhances the degradation of hepatic LDLR through a non-proteolytic mechanism mediated by clathrin LDLRAP1/ARH pathway. Additionally, it may disrupt the recycling of LDLR, directing it to lysosomes for degradation. PCSK9 can also induce ubiquitination of LDLR, leading to its subsequent breakdown. Furthermore, it inhibits the degradation of APOB, an important component of lipoproteins, through the autophagosome/lysosome pathway, independently of LDLR. In the early secretory pathway, PCSK9 helps dispose of non-acetylated intermediates of BACE1. It also plays a role in regulating the absorption of sodium ions through the ENaC channel by reducing its surface expression through increased proteasomal degradation. Finally, PCSK9 regulates neuronal apoptosis by modulating 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.

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