

Furin/PCSK3 Protein, Human (HEK293, His)

Cat. No.:	HY-P78747
Synonyms:	FURIN; FUR; PACE; PCSK3; SPC1
Species:	Human
Source:	HEK293
Accession:	P09958 (Q27-A574)
Gene ID:	5045
Molecular Weight:	60-75 kDa

PROPERTIES

AA Sequence

Q K V F T N T W A V	R I P G G P A V A N	S V A R K H G F L N	L G Q I F G D Y Y H
F W H R G V T K R S	L S P H R P R H S R	L Q R E P Q V Q W L	E Q Q V A K R R T K
R D V Y Q E P T D P	K F P Q Q W Y L S G	V T Q R D L N V K A	A W A Q G Y T G H G
I V V S I L D D G I	E K N H P D L A G N	Y D P G A S F D V N	D Q D P D P Q P R Y
T Q M N D N R H G T	R C A G E V A A V A	N N G V C G V G V A	Y N A R I G G V R M
L D G E V T D A V E	A R S L G L N P N H	I H I Y S A S W G P	E D D G K T V D G P
A R L A E E A F F R	G V S Q G R G G L G	S I F V W A S G N G	G R E H D S C N C D
G Y T N S I Y T L S	I S S A T Q F G N V	P W Y S E A C S S T	L A T T Y S S G N Q
N E K Q I V T T D L	R Q K C T E S H T G	T S A S A P L A A G	I I A L T L E A N K
N L T W R D M Q H L	V V Q T S K P A H L	N A N D W A T N G V	G R K V S H S Y G Y
G L L D A G A M V A	L A Q N W T T V A P	Q R K C I I D I L T	E P K D I G K R L E
V R K T V T A C L G	E P N H I T R L E H	A Q A R L T L S Y N	R R G D L A I H L V
S P M G T R S T L L	A A R P H D Y S A D	G F N D W A F M T T	H S W D E D P S G E
W V L E I E N T S E	A N N Y G T L T K F	T L V L Y G T A	

Biological Activity Measured by its ability to cleave the fluorogenic peptide substrate pERTKR-AMC. The specific activity is 191.99 pmol/min/μg, as measured under the described conditions.

Appearance Solution.

Formulation Supplied as a 0.22 μm filtered solution of 20 mM Tris, 150 mM NaCl, pH8.0, 20% Glycerol.

Endotoxin Level <1 EU/μg, determined by LAL method.

Reconstitution 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 extended storage. Avoid repeated freeze-thaw cycles.

Shipping Shipping with dry ice

DESCRIPTION

Background

Furin/PCSK3 protein is a ubiquitous endoprotease found within constitutive secretory pathways, exhibiting a remarkable ability to cleave at the RX(K/R)R consensus motif. This enzymatic versatility is evidenced by its involvement in the processing of TGFB1, a crucial step in the activation of TGF-beta-1. Furin/PCSK3 also plays a pivotal role in the conversion of the non-functional Brain natriuretic factor prohormone into its active hormone BNP(1-32). Furthermore, by mediating the processing of the accessory subunit ATP6AP1/Ac45 of the V-ATPase, Furin/PCSK3 contributes to the regulation of acidic environments within dense-core secretory granules in islets of Langerhans cells. Notably, in the context of microbial infection, this protease is implicated in the cleavage and activation of diphtheria toxin DT.

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

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