Recombinant Human FURIN, His-tagged

Cat. No. FURIN-606H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Furin is a 61.7 kDa protein, corresponding to residues 124 through 715 of the Furin precursor plus a C-terminal His tag.
Species	Human
Source	Hi-5 Insect Cells
Description	Proteases (also called Proteolytic Enzymes, Peptidases, or Proteinases) are enzymes that hydrolyze the amide bonds within proteins or peptides. Most proteases act in a specific manner, hydrolyzing bonds at or adjacent to specific residues or a specific sequence of residues contained within the substrate protein or peptide. Proteases play an important role in most diseases and biological processes including prenatal and postnatal development, reproduction, signal transduction, the immune response, various autoimmune and degenerative diseases, and cancer. They are also an important research tool, frequently used in the analysis and production of proteins. Furin is a calcium dependent serine endoprotease that processes numerous proproteins of different secretory pathways into their mature forms by cleaving at the carboxyl side of the recognition sequence, R-Xaa-(K/R)-R, where Xaa can be any amino acid.
AASequece	DLNVKAAWAQ GYTGHGIVVS ILDDGIEKNH PDLAGNYDPG ASFDVNDQDP DPQPRYTQMN DNRHGTRCAG EVAAVANNGV CGVGVAYNAR IGGVRMLDGE VTDAVEARSL GLNPNHIHIY SASWGPEDDG KTVDGPARLA EEAFFRGVSQ GRGGLGSIFV WASGNGGREH DSCNCDGYTN SIYTLSISSA TQFGNVPWYS

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	EACSSTLATT YSSGNQNEKQ IVTTDLRQKC TESHTGTSAS APLAAGIIAL TLEANKNLTW RDMQHLVVQT SKPAHLNAND WATNGVGRKV SHSYGYGLLD AGAMVALAQN WTTVAPQRKI IDILTEPKDI GKRLEVRKTV TACLGEPNHI TRLEHAQARL TLSYNRRGDL AIHLVSPMGT RSTLLAARPH DYSADGFNDW AFMTTHSWDE DPSGEWVLEI ENTSEANNYG TLTKFTLVLY GTAPEGLPVP PESSGCKTLT SSQACVVCEE GFSLHQKSCV QHCPPGFAPQ VLDTHYSTEN DVETIRASVC APCHACSATC QGPALTDCLS CPSHASLDPV EQTCSRQSQS SRESPPQQQP PRLPPEVEAG QRLRAGLLPS HLPEHHHHHH HH
Purity	Greater than 95% by SDS-PAGE gel and HPLC analyses.
Biological Activity	Measured by its ability to cleave the fluorogenic peptide substrate Boc-Arg-Val-Arg-Arg-AMC.
OfficialSymbol	FURIN

GENE INFORMATION

Gene Name	FURIN furin (paired basic amino acid cleaving enzyme) [Homo sapiens]
Synonyms	FURIN; furin (paired basic amino acid cleaving enzyme); FUR; PACE; SPC1; PCSK3; paired basic amino acid cleaving enzyme (furin, membrane associated receptor protein)
Gene ID	5045
mRNA Refseq	NM_002569
Protein Refseq	NP_002560
MIM	136950

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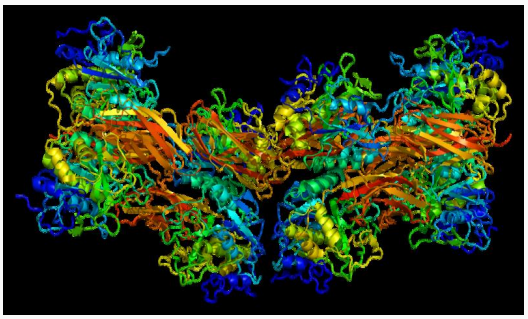
UniProt ID	P09958
Chromosome Location	15q26.1
Pathway	Activation of Matrix Metalloproteinases; Degradation of the extracellular matrix; Delta-Notch Signaling Pathway; Developmental Biology; Extracellular matrix organization; Gamma-carboxylation, transport, and amino-terminal cleavage of proteins; Glypican 3 network; HIF-1-alpha transcription factor network; Influenza A; Metabolism of proteins; NGF processing; Notch signaling pathway; PTM: gamma carboxylation, hypusine formation and arylsulfatase activation; Post-translational protein modification; Pre-NOTCH Expression and Processing
Function	endopeptidase activity; metal ion binding; nerve growth factor binding; peptidase activity; peptide binding; protease binding; serine-type endopeptidase activity; serine-type endopeptidase inhibitor activity
PDB rendering basedon 1p8j.	

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