

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 WASNGGREH DSCNCDGYTN SIYTLSSISA TQFGNVPWYS

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EACSSTLATT YSSGNQNEKQ IVTTDLRQKC TESHTGTSAS APLAAGIIL
 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 CPHASLDPV 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

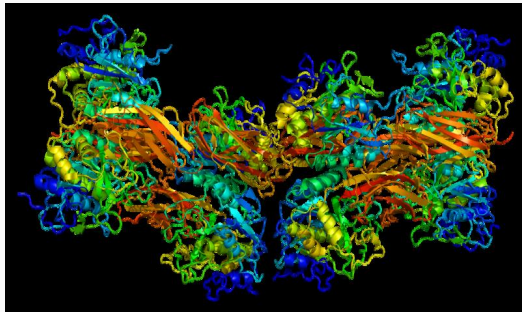
GENE INFORMATION

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 based on 1p8j.	

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