

## Active Recombinant Human FURIN Protein

Cat. No. FURIN-4553H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human FURIN (P09958) partial recombinant protein expressed in Hi-5 Insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	<p>The protein encoded by this gene belongs to the subtilisin-like proprotein convertase family. The members of this family are proprotein convertases that process latent precursor proteins into their biologically active products. This encoded protein is a calcium-dependent serine endoprotease that can efficiently cleave precursor proteins at their paired basic amino acid processing sites. Some of its substrates are: parathyroid hormone, transforming growth factor beta 1 precursor, proalbumin, pro-beta-secretase, membrane type-1 matrix metalloproteinase, beta subunit of pro-nerve growth factor and von Willebrand factor. It is also thought to be one of the proteases responsible for the activation of HIV envelope glycoproteins gp160 and gp140. This gene is thought to play a role in tumor progression. The use of alternate polyadenylation sites has been found for this gene. [provided by RefSeq</p>
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	Measured by its ability to cleave the fluorogenic peptide substrate Boc-Arg-Val-Arg-Arg-AMC.
<b>Molecular Mass</b>	61.7 kDa

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**AA Sequence**

DLNVKAAWAQGYTGHGIVVSILDDGIEKNHPDLAGNYDPGASFDVNDQDPDPQPRY  
 TQMNDNRHGTRCAGEVAAVANNGVCGVGVAYNARIGGVRMLDGEVTDAREARSL  
 GLNPNHIHIYSASWGPEDDGKTVDGPARLAEEAFFRGVSQGRGGLGSIFVWASGN  
 GGREHDSCNCDGYTNSIYTLSSISSATQFGNVPWYSEACSSTLATTYSSGNQNEKQI  
 VTTDLRQKCTESHTGTSASAPLAAGIIALTLEANKNLTWRDMQHLVVQTSKPAHLNA  
 NDWATNGVGRKVSHSYGYGLLDAGAMVALAQNWTTVAPQRKIIDILTEPKDIGKRLE  
 VRKTVTACLGEPNHITRLEHAQARLTLSYNRRGDLAIHLVSPMGTRSTLLAARPHDY  
 SADGFNDWAFMTTHSWDEDPGSEWVLEIENTSEANNYGTLTKFTLVLYGTAPEGLP  
 VPPESSGCKTLTSSQACVVCEEGFSLHQKSCVQHCPPGFAPQVLDTHYSTENDVET  
 IRASVCAPCHACSATCQGPALTDCLSCPSHASLDPVEQTCRSRQSQSSRESPPQQQ  
 PPRLPPEVEAGQRLRAGLLPSHLPEHHHHHHHH

**Endotoxin** Endotoxin level is < 0.1 ng/μg (< 1 EU/μg).

**Purity** 95%

**Applications** Functional Study  
SDS-PAGE

**Usage** Activity assay  
SDS-PAGE  
The optimal working dilution should be determined by the end user.

**Storage** Store at -20 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer** Lyophilized from solutions contain no sodium azide nor carrier protein

## GENE INFORMATION

**Gene Name** FURIN furin (paired basic amino acid cleaving enzyme) [ Homo sapiens ]

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<b>Official Symbol</b>	<b>FURIN</b>
<b>Synonyms</b>	FURIN; furin (paired basic amino acid cleaving enzyme); FUR, PACE, paired basic amino acid cleaving enzyme (furin, membrane associated receptor protein), PCSK3; furin; SPC1; FES upstream region; dibasic processing enzyme; dibasic-processing enzyme; furin, membrane associated receptor protein; proprotein convertase subtilisin/kexin type 3; paired basic amino acid residue-cleaving enzyme; FUR; PACE; PCSK3;
<b>Gene ID</b>	<b>5045</b>
<b>mRNA Refseq</b>	<b>NM_002569</b>
<b>Protein Refseq</b>	<b>NP_002560</b>
<b>MIM</b>	<b>136950</b>
<b>UniProt ID</b>	<b>P09958</b>

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