

Active Recombinant Human FURIN Protein

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

SPECIFICATION

Product Overview	Human FURIN (P09958) partial recombinant protein expressed in Hi-5 Insect cells.
Species	Human
Source	Insect Cells
Description	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
Form	Lyophilized
Bio-activity	Measured by its ability to cleave the fluorogenic peptide substrate Boc-Arg-Val-Arg-Arg-AMC.
Molecular Mass	61.7 kDa

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AA Sequence

DLNVKAAWAQGYTGHGIVVSILDDGIEKNHPDLAGNYDPGASFDVNDQDPDPQPRY
 TQMNDNRHGTRCAGEVA AVANNGVCGVGVAYNARIGGVRMLDGEVTD AVEARSL
 GLNPNHIHIYSASWGPEDDGKTV DGPARLAEEAFFRGVSQGRGGLGSIFVWASGN
 GGREHDSNCNDGYTNSIYTL SISSATQFGNVPWYSEACSSTLATTYSSGNQNEKQI
 VT TDLRQKCTESHTGTSASAPLAAGI IALTLEANKNLTWRDMQHLVVQTSKPAHLNA
 NDWATNGVGRKVS HSYGYGLLDAGAMVALAQNWTTVAPQRKIIDILTEPKDIGKRLE
 VRKTVTACLGEPNHITRLEHAQARLTLSYNRRGDLAIHLVSPMGTRSTLLAARPHDY
 SADGFNDWAFMTTHSWDEDP SG EWVLEIENTSEANNYGT LTKFTLVLYGT APEGLP
 VPPESSGCKLTSSQACVVCEE GFS LHQKSCVQHCPPGFAPQVLDTHYSTENDVET
 IRASVCAPCHACSATCQGPALTDCLSCPSHASLDPVEQTC SRQSQSSRESPPQQQ
 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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Official Symbol	FURIN
Synonyms	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;
Gene ID	5045
mRNA Refseq	NM_002569
Protein Refseq	NP_002560
MIM	136950
UniProt ID	P09958

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