

Recombinant Full Length Human FURIN Protein, GST-tagged

Cat. No. FURIN-5158HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FURIN full-length ORF (AAH12181.1, 28 a.a. - 794 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	28-794 amino acids
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
Molecular Mass	110.22 kDa
AA Sequence	KVFTNTWAVRIPGGPAVANSVARKHGFLNLGQIFGDYYHFWHRGVTKRSLSPHRPR HSRLQREPQVQWLEQQVAKRRTKRDVYQEPTDPKFPQQWYLSGVTQRDLNVKAA

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WAQGYTGHGIVVSILDDGIEKNHPDLAGNYDPGASFDVNDQDPDPQPRYTQMNDN
 RHGTRCAGEVA AVANNGVCGVG VAYNARIGGVRMLDGEVTD AVEARSLGLNPNI
 HIYSASWGPEDDGKTV DGPARLAE EAFRGVSQGRGGLGSIFVWASGNGGREHDS
 CNC DGYTNSIYTL SISSATQFGNVPWYSEACSS TLATTYSSGNQNEKQIVTTDLRQK
 CTESHTGTSASAPLAAGIIALTLEANKNLTWRDMQHLLVVT SKPAHLNANDWATNG
 VGRKVS HSYGYGLLDAGAMVALAQNWTTVAPQRKCIIDILTEPKDIGKRLEVRKTVT
 ACLGEPNHITRLEHAQARLTLSYNRRGDLAIHLVSPMGTRSTLLAARPHDYSADGFN
 DWAFMTTHSWDEDPSGEWVLEIENTSEANNYGT LTKFTLVLYGTAP EGLPVPPESS
 GCKTLTSSQACVVCEE GFSLHQKSCVQHCPPGFAPQVLDTHYSTENDVETIRASVC
 APCHASCATCQGPALTDCLSCPSHASLDPVEQTCSRQSQSSRESPPQQQPPRLPP
 EVEAGQRLRAGLLPSHLPEVVAGLSCAFIVLVFVT VFLVLQLRSGFSFRGVKVYTMD
 RGLISYKGLPPEAWQEECPSDSEED EGRGERTAFIKDQSAL

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

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

Official Symbol

FURIN

Synonyms

FURIN; furin (paired basic amino acid cleaving enzyme); FUR, PACE, paired basic

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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