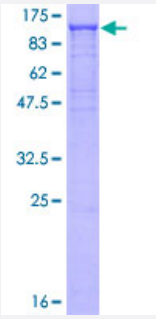
Full-Length

FURIN (Human) Recombinant Protein (P01)

Catalog # H00005045-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human FURIN full-length ORF (AAH12181.1, 28 a.a. - 794 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	KVFTNTWAVRIPGGPAVANSVARKHGFLNLGQIFGDYYHFWHRGVTKRSLSPHRPRHSRLQREP QVQWLEQQVAKRRTKRDVYQEPTDPKFPQQWYLSGVTQRDLNVKAAWAQGYTGHGIVVSILDD GIEKNHPDLAGNYDPGASFDVNDQDPDPQPRYTQMNDNRHGTRCAGEVAAVANNGVCGVGVA YNARIGGVRMLDGEVTDAVEARSLGLNPNHIHIYSASWGPEDDGKTVDGPARLAEEAFFRGVSQ GRGGLGSIFVWASGNGGREHDSCNCDGYTNSIYTLSISSATQFGNVPWYSEACSSTLATTYSSGN QNEKQIVTTDLRQKCTESHTGTSASAPLAAGIIALTLEANKNLTWRDMQHLVVQTSKPAHLNAND WATNGVGRKVSHSYGYGLLDAGAMVALAQNWTTVAPQRKCIIDILTEPKDIGKRLEVRKTVTACLG EPNHITRLEHAQARLTLSYNRRGDLAIHLVSPMGTRSTLLAARPHDYSADGFNDWAFMTTHSWDE DPSGEWVLEIENTSEANNYGTLTKFTLVLYGTAPEGLPVPPESSGCKTLTSSQACVVCEEGFSLH QKSCVQHCPPGFAPQVLDTHYSTENDVETIRASVCAPCHASCATCQGPALTDCLSCPSHASLD PVEQTCSRQSQSSRESPPQQQPPRLPPEVEAGQRLRAGLLPSHLPEVVAGLSCAFIVLVFVTVF LVLQLRSGFSFRGVKVYTMDRGLISYKGLPPEAWQEECPSDSEEDEGRGERTAFIKDQSAL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	110.22
Interspecies Antigen Sequence	Mouse (94)
Preparation Method	*in vitro* wheat germ expression system

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Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — FURIN

Entrez GeneID	5045
GeneBank Accession#	BC012181
Protein Accession#	AAH12181.1
Gene Name	FURIN
Gene Alias	FUR, PACE, PCSK3, SPC1
Gene Description	furin (paired basic amino acid cleaving enzyme)
Omim ID	136950
Gene Ontology	Hyperlink

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Gene Summary	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 th at can efficiently cleave precursor proteins at their paired basic amino acid processing sites. So me of its substrates are: proparathyroid hormone, transforming growth factor beta 1 precursor, pr oalbumin, pro-beta-secretase, membrane type-1 matrix metalloproteinase, beta subunit of pro-ne rve growth factor and von Willebrand factor. It is also thought to be one of the proteases responsib le 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 gen e. [provided by RefSeq
Other Designations	FES upstream region|dibasic processing enzyme|furin|furin, membrane associated receptor prot ein|paired basic amino acid cleaving enzyme (furin, membrane associated receptor protein)|prop rotein convertase subtilisin/kexin type 3

Publication Reference

- Development of a high-throughput assay for human proprotein convertase 5/6 for detecting uterine receptivity.

  Heng S, Dynon K, Li Y, Edgell T, Walton K, Rombauts LJ, Vollenhoven B, Nie G.

  Analytical Biochemistry 2015 Apr; 475:14.

  Application: ELISA, WB, Human, Uterine lavage

Disease

- Cardiovascular Diseases
- Colonic Neoplasms
- Colorectal Neoplasms
- Diabetes Mellitus
- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Hepatitis B
- Hypertension
- Liver Cirrhosis
- Rectal Neoplasms

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