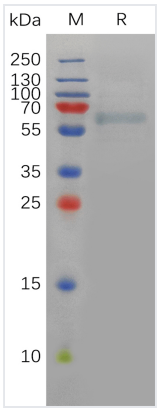
FURIN Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	FURIN, Recombinant Protein
Full Product Name	Human FURIN Protein, His Tag
Product Gene Name	FURIN recombinant protein
Product Synonym Names	FUR; PACE; PCSK3; SPC1
Host	HEK293
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.
Purity/Purification	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Molecular Weight	86,678 Da
OMIM	136950
3D Structure	ModBase 3D Structure for P09958
Tag	C-6×His tag
Product Categories/Family for FURIN recombinant protein	Bioactive Protein
Related Product Information for FURIN recombinant protein	Recombinant human FURIN protein with C-terminal 6×His tag This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. It encodes a type 1 membrane bound protease that is expressed in many tissues, including neuroendocrine, liver, gut, and brain. The encoded protein undergoes an initial autocatalytic processing event in the ER and then sorts to the trans-Golgi network through endosomes where a second autocatalytic event takes place and the catalytic activity is acquired. Like other members of this convertase family, the product of this gene specifically cleaves substrates at single or paired basic residues. Some of its substrates include proparathyroid 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 thought to be one of the proteases responsible for the activation of HIV envelope glycoproteins gp160 and gp140, and may play a role in tumor progression. Unlike SARS-CoV and other coronaviruses, the spike protein of SARS-CoV-2 is thought to be uniquely cleaved by this protease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2020]
Other Notes	Small volumes of FURIN recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FURIN purchase	MBS189167 is a recombinant protein targeting FURIN. Also known as Human FURIN Protein, His Tag. Host: HEK293.



SDS-Page of FURIN recombinant protein

Figure 1. Human FURIN Protein, His Tag on SDS-PAGE under reducing condition.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FURIN. It may not necessarily be applicable to this product.

NCBI GI #	577019578
NCBI GeneID	5045
NCBI Accession #	NP_001276752.1
UniProt Primary Accession #	P09958
UniProt Secondary Accession #	Q14336; Q6LBS3; Q9UCZ5
UniProt Related Accession #	P09958
GenBank Nucleotide #	NM_001289823.1
NCBI Official Full Name	furin preproprotein
NCBI Official Synonym Full Names	furin, paired basic amino acid cleaving enzyme
NCBI Official Symbol	FURIN
NCBI Official Synonym Symbols	FUR; PACE; SPC1; PCSK3
UniProt Protein Name	Furin
UniProt Synonym Protein Names	Dibasic-processing enzyme; Paired basic amino acid residue-cleaving enzyme; PACE
Protein Family	Furin
UniProt Gene Name	FURIN
UniProt Synonym Gene Names	FUR; PACE; PCSK3; PACE
UniProt Entry Name	FURIN_HUMAN
NCBI Protein Information	furin

UniProt Comments for FURIN	FURIN: Furin is likely to represent the ubiquitous endoprotease activity within constitutive secretory pathways and capable of cleavage at the RX(K/R)R consensus motif. Belongs to the peptidase S8 family. Furin subfamily. Protein type: Cell surface; EC 3.4.21.75; Membrane protein, integral; Protease; Vesicle Chromosomal Location of Human Ortholog: 15q26.1 Cellular Component: cell surface; endoplasmic reticulum; extracellular space; Golgi lumen; Golgi membrane; lipid raft; membrane; plasma membrane; trans-Golgi network; trans-Golgi network transport vesicle Molecular Function: endopeptidase activity; nerve growth factor binding; peptidase activity; peptide binding; protease binding; protein binding; serine-type endopeptidase activity; serine-type endopeptidase inhibitor activity Biological Process: cell proliferation; cellular protein metabolic process; collagen catabolic process; extracellular matrix disassembly; extracellular matrix organization and biogenesis; negative regulation of low-density lipoprotein receptor catabolic process; negative regulation of nerve growth factor production; negative regulation of transforming growth factor-beta1 production; nerve growth factor processing; nerve growth factor production; peptide biosynthetic process; peptide hormone processing; positive regulation of membrane protein ectodomain proteolysis; protein processing; regulation of endopeptidase activity; regulation of protein catabolic process; secretion by cell; signal peptide processing; transforming growth factor beta receptor signaling pathway; viral infectious cycle; viral protein processing
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