

Recombinant Full Length Human FURIN Protein, C-Flag-tagged

Cat. No. FURIN-861HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human FURIN Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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 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 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

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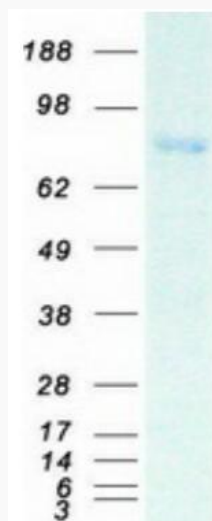
	variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	86.5 kDa
AA Sequence	MELRPWLLWVVAATGTLVLLAADAQGQKVFTNTWAVRIPGGPAVANSVARKHGFL NLGQIFGDYYHFWHR GVTKRSLSPHRPRHSRLQREPQVQWLEQQVAKRRTKRDV YQEPTDPKFPQQWYLSGVTQRDLNVKAAWAQ GYTGHGIVVSILDDGIEKNHPDLA GNYDPGASFDVNDQDPDPQPRYTQMNDNRHGTRCAGEVA AVANNGV CGVGVAY NARIGGVRMLDGEVTD AVEARSLGLNPNHIHIYSASWGPEDDGKTV DGPARLAE EA FFRGVSQ GRGGLGSIFVWASGNGGREHDSCNCDGYTNSIYTL SISSATQFGNVPW YSEACSSTLATTYSSGNQNEKQ IVTTDLRQKCTESHTGTSASAPLAAGIALTLEANK NLTWRDMQHLLVQTSKPAHLNANDWATNGVGRKV SHSYGYGLLDAGAMVALAQN WTTVAPQRKCIIDILTEPKDIGKRLEVRKTVTACLGEPNHITRLEHAQAR LTLSYNRR GDLAIHLVSPMGTRSTLLAARPHDYSADGFNDWAFMTTHSWDEDP SG EWVLEIENT SEANNY GTLTKFTLVLYGTAP EGLPVPP ESSGCKLTSSQACVVCEE GFSLHQKSC VQHCPPGFAPQVLDTHYSTE NDVETIRASVCAPCHASCATCQGPALTDCLSCPSHA SLDPVEQTCSRQSQSSRESPPQQQPPRLPPEVEA GQRLRAGLLPSHLPEVVAGLS CAFIVLVFVTVFLVLQLRSGFSFRGVKVYTM DRGLISYKGLPPEAWQEE CPSDSEEDEGRGERTAFIKDQSALTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.

Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protease, Transmembrane
Full Length	Full L.
GENE INFORMATION	
Gene Name	FURIN furin, paired basic amino acid cleaving enzyme [Homo sapiens (human)]
Official Symbol	FURIN
Synonyms	FUR; PACE; SPC1; PCSK3
Gene ID	5045
mRNA Refseq	NM_002569.4
Protein Refseq	NP_002560.1
MIM	136950
UniProt ID	P09958

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Coomassie blue staining of purified FURIN protein.