

Recombinant Human FURIN Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FURIN-6584H Lot. No. (See product label)

SPECIFICATION

Product Overview	FURIN MS Standard C13 and N15-labeled recombinant protein (NP_002560) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. The product of this gene is one of the seven basic amino acid-specific members which cleave their 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.
Molecular Mass	86.7 kDa
AA Sequence	MELRPWLLWVVAATGTLVLLAADAQGQKVFTNTWAVRIPGGPAVANSVARKHGFL NLGQIFGDYYHFWHRGVTKRSLSPHRPRHSRLQREPQVQWLEQQVAKRRTKRDV YQEPTDPKFPQQWYLSGVTQRDLNVKAAWAQGYTGHGIVVSILDDGIEKNHPDLAG NYDPGASFDVNDQDPDPQPRYTQMNDNRHGTRCAGEVAAVANNGVCGVGVAYN ARIGGVRMLDGEVTDAVEARSLGLNPNIHIYSASWGPEDDGKTVDGPARLAEEAF FRGVSQGRGGLGSIFVWASGNGGREHDSNCNDGYTNSIYTLSSISATQFGNVPWY SEACSSTLATTYSSGNQNEKQIVTTDLRQKCTESHTGTSASAPLAAGIALTLEANKN LTWRDMQHLVVQTSKPAHLNANDWATNGVGRKVSHSYGYLLDAGAMVALAQNW TTVAPQRKCIIDILTEPKDIGKRLEVRKTVTACLGEPNHITRLEHAQARLTLSYNRRGD LAIHLVSPMGTTRSTLLAARPHDYSADGFNDWAFMTTHSWDEDPGSEWVLEIENTSE ANNYGTLTKFTLVLYGTAPGLPVPPESSGCKLTSSQACVVCEEGLFSLHQBKSCVQ HCPPGFAPQVLDTHYSTENDVETIRASVCAPCHASCATCQGPALTDCLSCPSHASL DPVEQTCSRQSQSSRESPPQQPPRLPPEVEAGQRLRAGLLPSHLPEVVAGLSA FIVLVFVTFLVLQLRSGFSFRGVKVYTMDRGLISYKGLPPEAWQEECPDSEEDG RGERTAFIKDQSALTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	FURIN furin, paired basic amino acid cleaving enzyme [Homo sapiens (human)]
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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SDS-PAGE

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