

Recombinant Human FURIN Protein (AA 27-715), C-GFP/His-Tagged

Cat. No. FURIN-30H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FURIN Protein (AA 27-715) with C-GFP/His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	AA 27-715
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

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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.

Form

Liquid

AA Sequence

MQKVFTNTWAVRIPGGPAVANSVARKHGFLNLGQIFGDYYHFWHRGVTKRSLSPH
RPRHSRLQREPQVQWLEQQVAKRRTKRDVYQEPTDPKFPQQWYLSGVTQRDLNV
KAAWAQGYTGHGIVVSILDDGIEKNHPDLAGNYDPGASFDVNDQDPDPQPRYTQM
NDNRHGTRCAGEVAAVANNGVCGVGVAYNARIGGVRMLDGEVTDAVEARSLGLNP
NHIHIYSASWGPEDDGKTVDGPARLAEEAFFRGVSQGRGGLGSIFVWASGNGGRE
HDSCNCDGYTNSIYTLSSSATQFGNVPWYSEACSSTLATTYSSGNQNEKQIVTTDL
RQKCTESHTGTSASAPLAAGIALTLEANKNLWTRDMQHLVVQTSKPAHLNANDWA
TNGVGRKVSYSYGYGLLDAGAMVALAQNWTTVAPQRKCIIDILTEPKDIGKRLEVRK
TVTACLGEPNHITRLEHAQARLTLSYNRRGDLAIHLVSPMGTRSTLLAARPHDYSAD
GFNDWAFMTTHSWDEDPSGEWVLEIENTSEANNYGTLTKFTLVLYGTAEGLPVPP
ESSGCKTLTSSQACVVCCEEGFSLHQKSCVQHCPPGFAPQVLDTHYSTENDVETIRA
SVCAPCHASCATCQGPALTDCLSCPSHASLDPVEQTCSRQSQSSRESPPQQQPPR
LPPEVEAGQRLRAGLLPSHLPE

Purity

> 85% as determined by SDS-PAGE

Storage

Stored and shipped at -80 centigrade

Storage Buffer

PBS, pH 7.4

GENE INFORMATION

Gene Name

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

Official Symbol

FURIN

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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

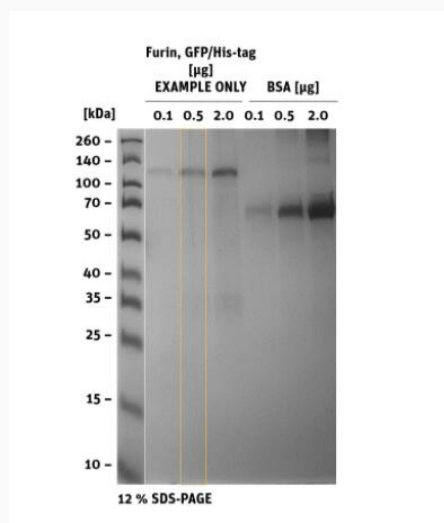
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Protein Refseq NP_002560

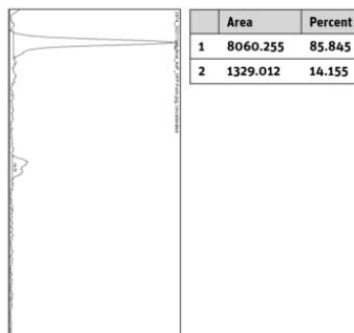
MIM 136950

UniProt ID P09958

SDS-PAGE



Histogram of marked
lane in gel picture



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