

Product datasheet for PH304279

FURIN (NM_002569) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	FURIN MS Standard C13 and N15-labeled recombinant protein (NP_002560)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204279
Predicted MW:	86.7 kDa
Protein Sequence:	>RC204279 protein sequence Red=Cloning site Green=Tags(s)

MELRPWLLWVVAATGTLVLLAADAQGQKVFNTWAVRIPGGPAVANSVARKHGFLNLGQIFGDYHFWHR
GVTKRSLSPHRPRHSRLQREPQVQWLEQQVAKRRTKRDVYQEPTDPKFPQQWYLSGVTQRDLNVKAAWAQ
GYTGHGIVVSILDDGIEKNHPDLAGNYDPGASFDVNDQDPDPQPRYTQMNDNRHGTRCAGEVAAVANNGV
CGVGVAYNARIGGVRMLDGEVTDAVEARSLGLNPNHIHIYSASWGPEDDGKTVDGPARLAEAEFFRGVVSQ
GRGGLGSIFVWASNGGREHDSNCNDGYTNSIYTLSSSATQFGNVPWYSEACSSLATTYSSGNQNEKQ
IVTTDLRQKCTESHTGTSASAPLAAGIIAL TLEANKNL TWRDMQHLVVQT SKPAHLNANDWATNGVGRKV
SHSYGYGLLDAGAMVALAQNWTTVAPQRKCIIDILTEPKDIGKRLEVRKVTACLGEPNHITRLEHAQAR
LTL SYNRRGDLAIHLVSPMGTRSTLLAARPHDYSADGFNDWAFMTTHSWDEDPSGEWVLEI ENTSEANNY
GTLTKFTLVLYGTAEPLPVPESSGCKLTSSQACVVCEEGFSLHQKSCVQHCPPGFAPQVL DTHYSTE
NDVETIRASVCAPCHASCATCQGPALTDCLSCPSHASLDPVEQTCRSQSQSSRE SPPQQQPPRLPPEVEA
GQRLRAGLLPSHLPEVVAGLSCAFIVLVFVTVFLVLQLRSGFSFRGVKVVYTMDRGLISYKGLPPEAWQEE
CPSDSEEDGREGERTAFIKDQSAL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_002560



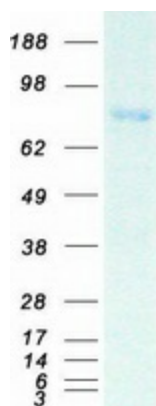
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RefSeq Size:	4251
RefSeq ORF:	2382
Synonyms:	FUR; PACE; PCSK3; SPC1
Locus ID:	5045
UniProt ID:	P09958 , A0A024RC70
Cytogenetics:	15q26.1

Summary: 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]

Protein Families: Druggable Genome, Protease, Transmembrane

Product images:



Coomassie blue staining of purified FURIN protein (Cat# [TP304279]). The protein was produced from HEK293T cells transfected with FURIN cDNA clone (Cat# [RC204279]) using MegaTran 2.0 (Cat# [TT210002]).