

## Product datasheet for **TP723119**

### **FURIN (NM\_002569) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Human furin (paired basic amino acid cleaving enzyme) (FURIN).
<b>Species:</b>	Human
<b>Expression Host:</b>	Hi-5 insect
<b>Expression cDNA Clone or AA Sequence:</b>	DLNVKAAWAQ GYTGHGIVVS ILDDGIEKNH PDLAGNYDPG ASFDVNDQDP DPQPRYTQMN DNRHGTTCAG EVAAVANNGV CGVGVAYNAR IGGVRMLDGE VTDAVEARSL GLNPNHIHIY SASWGPEDDG KTVDGPARLA EEAFFRGVSQ GRGGLGSIFV WASGNNGREH DSCNCDGYTN SIYTLSSISA TQFGNVPWYS EACSSTLATT YSSGNQNEKQ IVTTDLRQKC TESHTGTSAS APLAAGIIL TLEANKNLTW RDMQHLLVQT SKPAHLNAND WATNGVGRKV SHSYGYGLLD AGAMVALAQN WTTVAPQRKI IDILTEPKDI GKRLEVRKTV TACLGEPNHI TRLEHAQARL TLSYNRRGDL AIHLVSPMGT RSTLLAARPH DYSADGFNDW AFMTTHSWDE DPSGEWVLEI ENTSEANNYG TLTKFTLVLY GTAPEGLPVP PESSGCKTLT SSQACVVCEE GFSLHQKSCV QHCPPGFAPQ VLDTHYSTEN DVETIRASVC APCHACSATC QGPALTDCLS CPHASLDPV EQTCSRQSQS SRESPPQQQP PRLPPEVEAG QRLRAGLLPS HLPEHHHHHH HH
<b>Tag:</b>	C-His
<b>Predicted MW:</b>	61.7 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>95% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
<b>Bioactivity:</b>	Measured by its ability to cleave the fluorogenic peptide substrate Boc-Arg-Val-Arg-Arg-AMC (Bachem Catalog# I-1645.0025).
<b>Endotoxin:</b>	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
<b>RefSeq:</b>	<u><a href="#">NP_002560</a></u>
<b>Locus ID:</b>	5045



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UniProt ID: [P09958](#)

RefSeq Size: 4251

Cytogenetics: 15q26.1

RefSeq ORF: 2382

Synonyms: FUR; PACE; PCSK3; SPC1

**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 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 variants. [provided by RefSeq, Aug 2020]

**Protein Families:** Druggable Genome, Protease, Transmembrane