

## Active Recombinant Mouse Furin (paired basic amino acid cleaving enzyme)

**Cat. No.** Furin-566M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Furin protein was expressed in Chinese Hamster Ovary cell line, CHO-derived, with an N-terminus human CD33 signal peptide and a C-terminal 10-His tag. Gln25-Glu714.
<b>Species</b>	Mouse
<b>Source</b>	CHO
<b>Protein Length</b>	25-714 a.a.
<b>Description</b>	Furin is a member of the proprotein convertase (PC) family, which belongs to the subtilisin superfamily of serine proteases. As a cellular protease, Furin processes a variety of proproteins in secretory pathway compartments by cleaving after Arg-Xaa-Lys/Arg-Arg-like motifs, which usually reside at the end of the pro regions of these proproteins.
<b>Form</b>	Supplied as a 0.2 µm filtered solution in Tris, CaCl <sub>2</sub> , NaCl, Brij-35 and Glycerol.
<b>N-terminal Sequence</b>	Asp108, Cys198, Ser239, Glu684
<b>Molecular Weight</b>	77 kDa
<b>Activity</b>	Measured by its ability to cleave the fluorogenic peptide substrate pERTKR-AMC. The specific activity is > 150 pmoles/min/µg, as measured under the described conditions.

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<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>SDS-PAGE</b>	60-80 kDa, reducing conditions
<b>Purity</b>	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 °C as supplied. 3 months, -20 to -70 °C under sterile conditions after reconstitution.

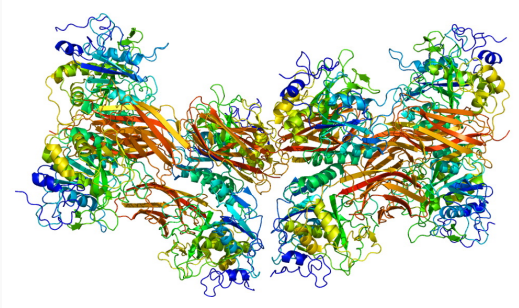
## GENE INFORMATION

<b>Gene Name</b>	Furin furin (paired basic amino acid cleaving enzyme) [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	Furin
<b>Synonyms</b>	Furin; furin (paired basic amino acid cleaving enzyme); OTTMUSP00000036135; OTTMUSP00000036136; OTTMUSP00000036137; OTTMUSP00000036138; Fur; PACE; SPC1; Pcsk3; 9130404I01Rik; prohormone convertase 3; diabolic-processing enzyme; subtilisin pro-protein processing enzyme; proprotein convertase subtilisin/kexin type 3; paired basic amino acid residue cleaving enzyme; paired basic amino acid residue-cleaving enzyme; EC 3.4.21.75
<b>Gene ID</b>	18550
<b>mRNA Refseq</b>	NM_001081454
<b>Protein Refseq</b>	NP_001074923
<b>UniProt ID</b>	P23188

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<b>Chromosome Location</b>	7
<b>Pathway</b>	Delta-Notch Signaling Pathway;Gamma-carboxylation, transport, and amino-terminal cleavage of proteins;Influenza A; Maturation of Notch precursor via proteolytic cleavage;Metabolism of proteins; NGF processing; PTM: gamma carboxylation, hypusineformation and arylsulfatase activation; Post-translational proteinmodification; Removal of aminoterminal propeptides from gamma-carboxylatedproteins; Signal Transduction, Signaling by Notch; Signaling by PDGF; Signalingby TGF beta; Signalling by NGF
<b>Function</b>	endopeptidase activity; hydrolase activity;metal ion binding; nerve growth factor binding; peptidase activity; peptidebinding; protease binding; protein binding; serine-type endopeptidaseactivity; serine-type endopeptidase inhibitor activity; serine-type peptidaseactivity
<b>PDBrendering based on 1p8j.</b>	

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