

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

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	CHO
Protein Length	25-714 a.a.
Description	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.
Form	Supplied as a 0.2 µm filtered solution in Tris, CaCl ₂ , NaCl, Brij-35 and Glycerol.
N-terminal Sequence	Asp108, Cys198, Ser239, Glu684
Molecular Weight	77 kDa
Activity	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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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	60-80 kDa, reducing conditions
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane.
Storage	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

Gene Name	Furin furin (paired basic amino acid cleaving enzyme) [<i>Mus musculus</i>]
Official Symbol	Furin
Synonyms	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
Gene ID	18550
mRNA Refseq	NM_001081454
Protein Refseq	NP_001074923
UniProt ID	P23188

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Chromosome Location	7
Pathway	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
Function	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
PDBrendering based on 1p8j.	