

Recombinant Human Furin (Paired Basic Amino Acid Cleaving Enzyme)

Cat. No. FURIN-720H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Sf9 Cells
Description	Furin is a protein that in humans is encoded by the FURIN gene. It was named furin because it was in the upstream region of an oncogene known as FES. The gene was known as FUR (FES Upstream Region) and therefore the protein was named furin. Furin is also known as PACE (Paired basic Amino acid Cleaving Enzyme).
Preparation Note	Isolated from Spodoptera frugiperda (Sf9) cells infected with recombinant baculovirus carrying truncated human furin.
Biochem/physiol Actions	Furin is a dibasic endoprotease that is localized in the Golgi apparatus. It is responsible for the proteolytic maturation of many precursor proteins in the secretory and endocytic pathways of mammalian cells.
Unit Definition	One unit is defined as the amount of Furin that will release 1 pmole of AMC from the fluorogenic peptide Boc-RVRR-AMC in 1 minute at 30 °C.
Physical Form	Solution in 10 mM MES, pH 7.0 at 25 °C, 1 mM CaCl ₂ , 50% glycerol.
Form	buffered aqueous solution.

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Concentration	≥2,000 unit/ML.
Storage Temp	–70°C.
GENE INFORMATION	
Gene Name	FURIN furin (paired basic amino acid cleaving enzyme) [Homo sapiens]
Synonyms	FURIN; furin (paired basic amino acid cleaving enzyme); FUR; PACE; SPC1; PCSK3; 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; EC 3.4.21.75; paired basic amino acid cleaving enzyme (furin, membrane associated receptor protein)
Gene ID	5045
mRNA Refseq	NM_002569
Protein Refseq	NP_002560
MIM	136950
UniProt ID	P09958
Chromosome Location	15q26.1
Pathway	Metabolism of proteins; Signaling by Notch; Signaling by PDGF; Signaling by TGF beta; Signalling by NGF
Function	endopeptidase activity; metal ion binding; nerve growth factor binding; peptidase

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activity; peptide binding; protease binding; protein binding; serine-type endopeptidase activity; serine-type endopeptidase inhibitor activity

PDB rendering based
on 1p8j.



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