

## **Furin from Human, Recombinant**

Cat. No. NATE-0268

Lot. No. (See product label)

## Introduction

**Description** 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. Furin is a dibasic endoprotease that is localized in the Golgi apparatus. It has a molecular mass of 52.7 kDa. It is responsible for the proteolytic maturation of many precursor proteins in the secretory and endocytic pathways of mammalian cells. Furin cleaves precursor proteins at their paired basic amino acid processing sites. Some substrates of furin include von Willebrand factor, transforming growth factor

beta 1 precursor, pro-beta-secretase and proparathyroid hormone.

**Applications** Furin is capable of cleaving precursors of a wide variety of proteins, including growth factors, serum

proteins, including proteases of the blood-clotting and complement systems, matrix metalloproteinases, receptors, viral-envelope glycoproteins, and bacterial exotoxins, typically at sites marked by the

consensus sequence Arg-Xaa-(Lys/Arg)-Arg.

**Synonyms** furin; prohormone convertase; dibasic processing enzyme; PACE; paired basic amino acid cleaving

enzyme; paired basic amino acid converting enzyme; serine proteinase PACE; PC1; SPC3; proprotein

convertase

## **Product Information**

**Species** Human

**Source** Baculovirus infected Sf9 cells

**Form** buffered aqueous solution

Activity > 2,000 unit/mL

**Buffer** Solution in 10 mM MES, pH 7.0 at 25°C, 1 mM CaCl2, 50% glycerol.

**Pathway** Activation of Matrix Metalloproteinases, organism-specific biosystem; Degradation of the extracellular

matrix, organism-specific biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Gamma-carboxylation, transport, and amino-terminal cleavage of proteins,

organism-specific biosystem; Glypican 3 network, organism-specific biosystem

Function endopeptidase activity; metal ion binding; nerve growth factor binding; peptidase activity; peptide

binding; protease binding; serine-type endopeptidase activity; serine-type endopeptidase activity; serine-

type endopeptidase inhibitor activity

Unit One unit is defined as the amount of Furin that will release 1 pmole of AMC from the fluorogenic peptide

**Definition** Boc-RVRR-AMC in 1 minute at 30°C.

## Storage and Shipping Information

*Storage* −70°C

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