

Furin, Human Recombinant

CATALOG #: P1658-10 10 µg
P1658-50 50 µg

ALTERNATIVE NAMES: FUR, PACE, PCSK3, SPC1

SOURCE: Insect Cells (*sf9*)

PURITY: ≥ 95% by SDS-PAGE

MOL. WEIGHT: 62 kDa (contains His tag at the C-terminus)

FORM: Liquid

FORMULATION: In 12.5 mM Tris, pH 8.0 1 mM CaCl₂, 100 mM NaCl, and 50% Glycerol.

STORAGE CONDITIONS: The protein is stable at ≤-70 °C for up to 1 year from the date of receipt. For optimal storage, divide into smaller aliquots after centrifugation and store at ≤-70 °C. Avoid repeated freeze-thaw cycles.

DESCRIPTION: Furin is a member of the proprotein convertase family. As a cellular protease, Furin processes various latent precursor proteins into their biologically active products by cleaving at the RX(K/R)R consensus motif. Some of its substrates are various growth factors, serum proteins, proteases of the blood-clotting and complement systems, matrix metalloproteinases, receptors, viral-envelope glycoproteins, and bacterial exotoxins. Furin play an essential role in embryogenesis and homeostasis and is implicated in various pathologies such as cancer, neurodegenerative diseases and anthrax. A Furin cleavage site (PRRAR) in the SARS-CoV-2 spike protein is considered a key contributor to COVID-19 pathogenesis. The purified human recombinant Furin is a truncated soluble protein (27-574 aa) that lacks the transmembrane domain.

SPECIFIC ACTIVITY: > 20 mU/mg

UNIT DEFINITION: One unit of Furin is the amount of enzymes that cleaves a fluorescent peptidyl substrate and liberates 1 µmol AMC per minute at pH 7.5, 25 °C.

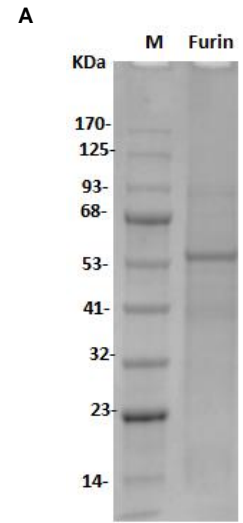


Figure A. Human recombinant Furin (2 µg) was ran on a SDS-PAGE (4-20%) gel under reducing conditions and stained with Coomassie Blue.

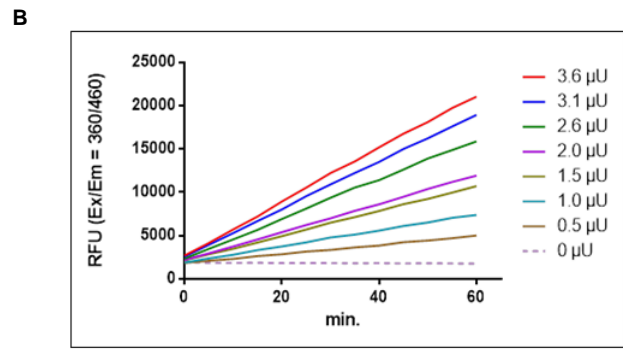


Figure B. Specific activity of Furin was measured as the amount of enzyme that cleaves a fluorescent peptidyl substrate and liberates AMC measured at Ex/Em = 360/460 nm.

RELATED PRODUCTS:
 Human CellExp™ Furin, human recombinant (Cat# 7249)
 Furin/PACE Antibody (Cat# 3873)
 Galectin-3, mouse recombinant (Cat# P1045)

FOR RESEARCH USE ONLY! Not to be used on humans.