

## Furin Human Hi-5 Insect cells

### Product Data Sheet

<b>Type:</b> Recombinant	<b>Cat. No.:</b>	
<b>Source:</b> Hi-5 Insect cells	RBG10151002	(2 µg)
<b>Species:</b> Human	RBG10151010	(10 µg)
<b>Other names:</b> FUR, PACE, PCSK3	RBG10151100	(100 µg)

### Description

Proteases (also called Proteolytic Enzymes, Peptidases or Proteinases) are enzymes that hydrolyze the amide bonds within proteins or peptides. Most proteases act in a specific manner, hydrolyzing bonds at or adjacent to specific residues or a specific sequence of residues contained within the substrate protein or peptide. Proteases play an important role in most diseases and biological processes including prenatal and postnatal development, reproduction, signal transduction, the immune response, various autoimmune and degenerative diseases and cancer. They are also an important research tool, frequently used in the analysis and production of proteins. Furin is a calcium dependent serine endoprotease that processes numerous proproteins of different secretory pathways into their mature forms by cleaving at the carboxyl side of the recognition sequence, R-Xaa-(K/R)-R, where Xaa can be any amino acid. Recombinant human Furin is a 61.7 kDa protein, corresponding to residues 124 through 715 of the Furin precursor plus a C-terminal His tag.

### Research topic

Others

### Amino Acid Sequence

DLNVKAAWAQ GYTGHGIVVS ILDDGIEKNH PDLAGNYDPG ASFDVNDQDP DPQPRYTQMN DNRHGTRCAG EVAAVANNGV  
 CGVGVAYNAR IGGVRMLDGE VTDAVEARSL GLNPNHIHIY SASWGPEDDG KTVDGPARLA EEAFFRGVSQ GRGGLGSIFV  
 WASNGGREH DSCNCDGYTN SIYTLSSISA TQFGNVPWYS EACSSTLATT YSSGNQNEKQ IVTTDLRQKC TESHTGTSAS  
 APLAAGIIAL TLEANKNLTW RDMQHLVVQT SKPAHLNAND WATNGVGRKV SHSYGYGLLD AGAMVALAQN WTTVAPQRKI  
 IDILTEPKDI GKRLEVRKTV TACLGEPNHI TRLEHAQARL TLSYNRRGDL AIHLVSPMGT RSTLLAARPH DYSADGFNDW  
 AFMTTHSWDE DPSGEWVLEI ENTSEANNYG TLTKFRTLVLVY GTAPEGLPVP PESSGCKTLT SSQACVQCEE GFSLHQKSCV  
 QHCPPGFAPQ VLDTHYSTEN DVETIRASVC APCHACSATC QGPALTDCLS CPHASLDPV EQTCSRQSQS SRESPPQQQP  
 PRLPPEVEAG QRLRAGLLPS HLP EHHHHHHH HH

### Source

Hi-5 Insect cells

### Purity

95%

### Biological Activity

Measured by its ability to cleave the fluorogenic peptide substrate Boc-Arg-Val-Arg-Arg-AMC.

### Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

### Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

### Storage, Stability/Shelf Life

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