

Human CellExp Furin, human recombinant protein
FURIN, FUR, PACE, PCSK3, SPC1
Catalog # PBV10879r**Specification**

Human CellExp Furin, human recombinant protein - Product infoPrimary Accession
Calculated MW[P09958](#)

This protein is fused with 6×His tag at the C-terminus, has a calculated MW of 66.5 kDa. The predicted N-terminus is Asp 108. DTT-reduced Protein migrates as 55-66 kDa. KDa

Human CellExp Furin, human recombinant protein - Additional InfoGene ID
Gene Symbol
Other Names
FURIN, FUR, PACE, PCSK3, SPC1**5045**
PACEGene Source
Source
Assay&Purity
Assay2&Purity2
Recombinant
Target/Specificity
Furin**Human**
HEK 293 cells
SDS-PAGE; ≥95%
HPLC;
Yes**Application Notes**

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format

Lyophilized powder

Storage

-20°C; Lyophilized from 0.22 µm filtered solution in MES, Brij-35. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.

Human CellExp Furin, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp Furin, human recombinant protein - Images

Human CellExp Furin, human recombinant protein - Background

Furin also known as paired basic Amino acid Cleaving Enzyme (PACE), is an enzyme which belongs to the subtilisin-like proprotein convertase family. The members of this family are proprotein convertases that process latent precursor proteins into their biologically active products. Furin is enriched in the Golgi apparatus, where it functions to cleave other proteins into their mature/active forms. The expression of furin in T-cells is required for maintenance of peripheral immune tolerance. Furin cleaves proteins just downstream of a basic amino acid target sequence (canonically, Arg-X-(Arg/Lys) -Arg'). PACE is a calcium-dependent serine endoprotease that can efficiently cleave precursor proteins at their paired basic amino acid processing sites. In addition to processing cellular precursor proteins, furin is also utilized by a number of pathogens. For example, the envelope proteins of viruses such as HIV, influenza and dengue fever viruses must be cleaved by furin or furin-like proteases to become fully functional. PACE also play a role in tumor progression.

Human CellExp Furin, human recombinant protein - References

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Wise R.J.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:9378-9382(1990).
Barr P.J.,et al.DNA Cell Biol. 10:319-328(1991).
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