Proteins



Product Data Sheet

Furin/PCSK3 Protein, Mouse (HEK293, His)

Cat. No.: HY-P79228

Synonyms: Furin; Dibasic-processing enzyme; Paired basic amino acid residue-cleaving enzyme; PACE;

Prohormone convertase 3; Fur; Pcsk3

Species: Mouse Source: HEK293

Accession: P23188 (Q25-E714)

Gene ID: 18550 Molecular Weight: 75-91 kDa

PROPERTIES

AA Sequence	QGQKIFTNTW AVHIPGGPAV ADRVAQKHGF HNLGQIFGDY YHFWHRAVTK RSLSPHRPRH SRLQREPQVK WLEQQVAKRR AKRDVYQEPT DPKFPQQWYL SGVTQRDLNV KEAWAQGFTG HGIVVSILDD GIEKNHPDLA GNYDPGASFD VNDQDPDPQP RYTQMNDNRH GTRCAGEVAA VANNGVCGVG VAYNARIGGV RMLDGEVTDA VEARSLGLNP NHIHIYSASW GPEDDGKTVD GPARLAEEAF FRGVSQGRGG LGSIFVWASG NGGREHDSCN CDGYTNSIYT LSISSATQFG NVPWYSEACS STLATTYSSG NQNEKQIVTT DLRQKCTESH TGTSASAPLA AGIIALTLEA NKNLTWRDMQ HLVVQTSKPA HLNADDWATN GVGRKVSHSY GYGLLDAGAM VALAQNWTTV APQRKCIVEI LVEPKDIGKR LEVRKAVTAC LGEPNHITRL EHVQARLTLS YNRRGDLAIH LISPMGTRST LLAARPHDYS ADGFNDWAFM TTHSWDEDPA GEWVLEIENT SEANNYGTLT KFTLVLYGTA PEGLSTPPES SGCKTLTSSQ ACVVCEEGYS LHQKSCVQHC
	GYGLLDAGAM VALAQNWTTV APQRKCIVEI LVEPKDIGKR
	LISPMGTRST LLAARPHDYS ADGFNDWAFM TTHSWDEDPA GEWVLEIENT SEANNYGTLT KFTLVLYGTA PEGLSTPPES
Biological Activity	Measured by its ability to cleave the fluorogenic peptide substrate pERTKR-AMC. The specific activity is 307.98 pmol/min/ μ g, as measured under the described conditions.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 150 mM NaCl, 1 mM ₂ , 0.5% (w/v) Brij-35, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

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Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Furin/PCSK3 protein is a widely expressed endoprotease present in constitutive secretory pathways that exhibits cleavage activity at the RX(K/R)R consensus motif. It plays a crucial role in the processing of various substrates, including TGFB1, contributing to the activation of TGF-beta-1. Additionally, Furin/PCSK3 protein is responsible for converting the non-functional prohormone Brain natriuretic factor into its active hormone BNP(1-45) through proteolytic cleavage. Moreover, it regulates the acidification of dense-core secretory granules in islets of Langerhans cells by mediating the processing of the accessory subunit ATP6AP1/Ac45 of the V-ATPase.

Caution: Product has not been fully validated for medical applications. For research use only.

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