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Datasheet for ABIN2468449

FURIN Protein

Overview

Quantity: 0.002 mg

Target: FURIN

Origin: Human

Source: Hi-5 Cells

Protein Type: Recombinant

Biological Activity: Active

Product Details

Sequence: DLNVKAAWAQ GYTGHGIVVS ILDDGIEKNH PDLAGNYDPG ASFDVNDQDP DPQPRYTQMN
DNRHGTRCAG EVAAVANNGV CGVGVAYNAR IGGVRMLDGE VTDAVEARSL GLNPNHIIHY
SASWGPEDDG KTVDGPARLA EEAFFRGVSQ GRGGLGSIFV WASGNGGREH DSCNCDGYTN
SIYTLSSISA TQFGNVPWYS EACSSTLATT YSSGNQNEKQ IVTTDLRQKC TESHTGTSAS
APLAAGIAL TLEANKNLTW RDMQHLLVQT SKPAHLNAND WATNGVGRKV SHSYGYGLLD
AGAMVALAQW WTTVAPQRKC IIDILTEPKD IGRKLEVRKT VTACLGEPNH ITRLEHAQAR
LTLNRRRGD LAIHLVSPMG TRSTLLAARP HDYSADGFND WAFMTTHSWD EDPSGEWVLE
IENTSEANNY GTLTKFTLV L YGTAPEGLPV PPESGCKTL TSSQACVVCE EGFSLHQKSC
VQHCPPGFAP QVLDTHYSTE NDVETIRASV CAPC

Characteristics: Biological activity was measured by its ability to cleave the fluorogenic peptide substrate Boc-Arg-Val-Arg-Arg-AMC (Bachem Catalog# I-1645.0025).

Purity: < 95 % by SDS-PAGE gel and HPLC analyses.

Endotoxin Level: Endotoxin level is less than 0.1 ng per μg (1 EU/ μg).

Target Details

Target:	FURIN
Alternative Name:	Furin (FURIN Products)
Background:	<p>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 63.9 kDa protein, corresponding to residues 131 through 715 of the Furin precursor plus a C-terminal His tag.</p>
Gene ID:	5045
NCBI Accession:	NP_001276752
OMIM:	577019578
UniProt:	P09958
Pathways:	Notch Signaling , Neurotrophin Signaling Pathway

Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Handling Advice:	As with any protein, exposing Furin recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.
Storage:	-20 °C
Storage Comment:	The recombinant protein is stable for at least 2 years from date of receipt at -20 °C. Reconstituted Furin stable for at least 3 months when stored in working aliquots with a carrier

Handling

protein at -20 °C.

Expiry Date: 24 months