

Structure and Function Relationship of the Cardiac Transmembrane Serine Protease Corin

Identification of Key Elements Required for
Pro-Atrial Natriuretic Peptide Processing

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Sabine Knappe

aus Görlitz

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2. Gutachter: Prof. Dr. F. Hucho

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Abbreviations

aa	amino acid(s)
ADH	antidiuretic hormone
ANP	atrial natriuretic peptide
AT-III	antithrombin III
ATZ	anilinothiazolinone
bp	base pair(s)
BHK	baby hamster kidney
β-ME	β-mercaptoethanol
BNP	brain natriuretic peptide
BSA	bovine serum albumin
°C	degree Celsius
CaCl ₂	calcium chloride
cDNA	complementary DNA
cGMP	cyclic guanosine monophosphate
CHF	congestive heart failure
CNP	C-type natriuretic peptide
CO ₂	carbondioxide
CPZ	carboxypeptidase Z
C-terminal or -terminus	carboxyl-terminal or -terminus
CUB	complement, urchin embryonic growth factor and bone morphogenic protein
DESC	differentially expressed in squamous cell carcinoma
DNA	deoxyribonucleic acid
dNTP	deoxyribonucleoside triphosphate
ECL	enhanced chemiluminescent
ECM	extracellular matrix

<i>E. coli</i>	<i>Escherichia coli</i>
EDTA	ethylenediaminetetraacetic acid
EIA	enzyme immunoassay
EK	enterokinase
EST	expressed sequence tag
EtBr	ethidium bromide
FBS	fetal bovine serum
Fig.	figure
FPLC	fast performance liquid chromatography
Fz	frizzled-like
GC	guanylyl cyclase
h	hour(s)
HAI-1	hepatocyte growth factor activator inhibitor-1
HAT	human airway trypsin-like protease
HEK	human embryonic kidney
HPLC	high pressure liquid chromatography
HRP	horseradish peroxidase
Igκ	immunoglobulin κ
k_{cat}	turnover number
kb	kilo base(s)
KCl	potassium chloride
kDa	kilo Dalton
K_m	Michaelis-Menten constant
K_2PO_4	potassium phosphate
L	liter(s)
LB	Luria-Bertani
LDLR	low-density lipoprotein receptor
LDLR-CI and -CII	LDLR-clusterI or -clusterII
LRP	LDLR-related protein
M	molar
mA	milliampere(s)

MAM	meprin-like
MEM	modified Eagle's medium
μg	microgram(s)
min	minute(s)
mL	milliliter(s)
μL	microliter(s)
mM	millimolar
μM	micromolar
mRNA	messenger RNA
MW	molecular weight
NaCl	sodium chloride
ng	nanogram(s)
nm	nanometer(s)
nM	nanomolar
NPR	natriuretic peptide receptor
NTA	nitrilotriacetic acid
N-terminal or -terminus	amino-terminal or -terminus
OD	optical density
PA	polyacrylamide
PAGE	PA gel electrophoresis
PBS	phosphate buffered saline
PCR	polymerase chain reaction
PC	prohormone convertase
PE	phenylephrine
<i>Pfu</i>	<i>Pyrococcus furiosus</i>
pg	picogram(s)
PMSF	Phenyl methyl sulfonyl fluoride
pro-ANP	pro-atrial natriuretic peptide
pro-BNP	pro-brain natriuretic peptide
pro-CNP	pro-C-type natriuretic peptide
PTH	phenylthiohydantoin

R	repeat
RAP	receptor associated protein
RNA	ribonucleic acid
rpm	revolutions per minute
RT-PCR	reverse transcriptase-PCR
s	second(s)
SCLC	small cell lung cancer
S.D.	standard deviation
SDS	sodium dodecyl sulfate
SEA	sea urchin sperm protein
SEC	size exclusion chromatography
Serpins	serine protease inhibitors
SIADH	syndrome of inappropriate secretion of ADH
siRNA	small interfering RNA
SR	scavenger receptor
TAE	Tris-acetate-EDTA
TAPVR	total anomalous pulmonary venous return
<i>Taq</i>	<i>Thermus aquaticus</i>
TFA	trifluoroacetic acid
TLCK	tosyl-Lys-chloromethylketone
T _m	melting temperature
TMPRSS	type II transmembrane serine protease
TPCK	tosyl-Phe-chloromethylketone
TTSP	type II transmembrane serine protease
UV	ultraviolet
V	velocity
VLDLR	very low-density lipoprotein receptor
V _{max}	maximum velocity
WT	wild-type