
LIST OF ABBREVIATIONS

(% CV)	:	% Coefficient of variation
K ₃ Fe(CN) ₆	:	Potassium ferricyanide
2-APB	:	2-Aminoethyl diphenyl borinate
AC8	:	Adenylyl cyclase 8
Ag-II	:	Angiotensin-II
AlCl ₃ .6H ₂ O	:	Aluminum chloride hexahydrate
AlCl ₃ .6H ₂ O	:	Aluminum chloride hexahydrate
ALT	:	Alanine aminotransferase
AMI	:	Acute myocardial infarction
ANSA	:	1-Amino 2-naphthol 4-sulphonic acid
APS	:	Ammonium persulfate
ARC	:	Arachidonate-regulated Ca ²⁺
ASIC	:	Acid sensing ion channels
ASR	:	Anisaldehyde Sulphuric acid reagent
AST	:	Aspartate aminotransferase
ATP	:	Adenosine triphosphate
BHA	:	Butylated hydroxy anisole
BNP	:	Brain natriuretic peptide
BSA	:	Bovine serum albumin
Ca ²⁺ -ATPase	:	Calcium dependent adenosine triphosphatase
CAD	:	Crac activating domain
CamK	:	Ca ²⁺ /calmodulin-dependent kinase
CAT	:	Catalase
CC	:	Coiled Coil domain
CCB	:	Calcium channel blocker
CDI	:	Ca ²⁺ -dependent inactivation
CDNB	:	1-chloro, 2, 4-dinitrobenzene
CDNB	:	2. 1-chloro, 2,4-dinitrobenzene
CH ₃ COOK	:	Potassium acetate

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CK-MB	:	Creatine kinase-mb
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CMD	:	Crac modulatory domain
CO	:	Cardiac output
CPCSEA	:	Control and Supervision of Experiments on Animals
CRAC	:	Ca ²⁺ release activated Ca ²⁺ channels
DAG	:	Diacylglycerol
DAPI	:	4',6-diamidino-2-phenylindole
DCFHDA	:	2',7'-dichlorodihydrofluorescein diacetate
DMEM	:	Dulbecco's modified eagles' medium
DMSO	:	Dimethylsulphoxide
DOXO	:	Doxorubicin hydrochloride
DPPH	:	1,1-diphenyl2-picrylhydrazyl
DTNB	:	5, 5'-dithiobis (2-nitro benzoic acid)
EDTA-K ⁺	:	Ethylene diamine tetra acetic acid
EF	:	EF-hand motif
ER	:	Endoplasmic reticulum
ER	:	Endoplasmic reticulum
ER/SR	:	Endoplasmic reticulum or sarcoplasmic reticulum
ERM	:	Ezrin Radixin Moesin like domain
EU	:	Eugenol
FBS	:	Fetal bovine serum
FCR	:	Folin-Ciocalteu reagent
FecI ₃	:	Ferric chloride
FID	:	Flame ionization detector
FRET	:	Fluorescence resonance energy transfer
GA	:	Gallic acid
GPx	:	Glutathione peroxidase

GSH	:	Reduced glutathione
GSH	:	Glutathione
GSH	:	Reduced glutathione
GST	:	Glutathione s-transferase
HF	:	Heart failure
HO	:	Hydroxyl radical
HTAB	:	Hexadecyl trimethyl ammonium bromide
HVACC	:	High-voltage-activated calcium channel
IAEC	:	Institutional animal ethics committee
IL-6	:	Interlukin-6
IP ₃	:	Inositol 1,4,5-trisphosphate
IP ₃ R	:	IP ₃ receptor
ISO	:	Isoproterenol hydrochloride
ISO	:	Isoproterenol
K	:	Polybasic cluster
KA	:	Kainic acid
KH ₂ PO ₄	:	Potassium dihydrogen orthophosphate
KH ₂ PO ₄	:	Dihydrogen orthophosphate
LAD	:	Left anterior descending coronary artery ligation
LDH	:	Lactate dehydrogenase
LDH	:	Lactate dehydrogenase
MDA	:	Malonedialdehyde
Mg ²⁺ +ATPase	:	Magnesium dependent adenosine triphosphatase
MPO	:	Myeloperoxidase
MTT	:	(3-4,5- dimethylthiazol-2,5 biphenyl tetrazolium bromide),
Na+K+ATPase	:	Sodium-potassium dependent adenosin triphosphatase
Na ₂ HPO ₄	:	Disodium hydrogen orthophosphate

Na ₂ HPO ₄ . 7H ₂ O	:	Disodium hydrogen orthophosphate
NaH ₂ PO ₄ . H ₂ O	:	Sodium dihydrogen orthophosphate
NBT	:	Nitro blue tetrazolium
NBT	:	Nitro blue tetrazolium
NCCS	:	National center for cell science
NCX	:	Sodium calcium exchanger
NCX	:	Na ⁺ - Ca ⁺⁺ exchanger
Non-DHP	:	Non-dihydropyridines
NOS	:	Nitric oxide synthases
NP-40	:	Igepal
OASF	:	Orai activating small fragment
OPA	:	Orthophosphoric acid
PAF	:	Platelet activating factor
PBEA	:	Piper betle ethyl acetate extract
PBS	:	Phosphate buffer saline
PBS-T	:	Phosphate buffer saline with tween-20
PCA	:	The Prevention of Cruelty to Animals act
PI	:	Propidium iodide
Pi	:	Inorganic phosphorus
PIP ₂	:	Phosphatidylinositol 4,5 bisphosphate
PLC	:	Phospholipase C
PM	:	Plasma membrane
PMCA	:	Plasma membrane calcium atpase
PMS	:	Phenazine methosulphate
RCHA	:	Rubia cordifolia hydroalcoholic extract
ROS	:	Reactive oxygen species
S/P	:	Serine/Proline rich region
SAM	:	Sterile-alpha motif
SAM	:	Sterile alpha motif
SCID	:	Severe combined immune deficiency
SDS	:	Sodium dodecyl sulphate

SDS-PAGE	:	Sds-polyacrylamide gel electrophoresis
SHD	:	STIM1 C-terminal homomerization domain
SOAR	:	Stim orai activating region
SOCE	:	Store-operated calcium entry
SOCIC	:	Sore-operated Ca^{2+} influx complex
SOD	:	Superoxide dismutase
TBA	:	Thiobarbituric acid
TCA	:	Trichloro acetic acid
TCA	:	Trichloro acetic acid
TCA	:	Tri chloro aceticacid
TEA	:	Triethylamine
TEMED	:	Tetramethylethylenediamine
TEMED	:	<i>N,N,N',N'</i> -tetramethylethylene-diamine
TM	:	Transmembrane domain
TM1	:	Trans membrane segment 1
TNF- α	:	Tumor necrosis factor – alpha
TPR	:	Total peripheral resistance
TRPM	:	Transient receptor ion channels
TTC	:	2,3,5-Triphenyl tetrazolium chloride
VDCC	:	Voltage-dependent calcium channels