

TNF- α	:	Tumor necrosis factor-alpha
%EE	:	Percentage entrapment efficiency
w/v	:	Weight by volume
5-HT	:	Serotonin
ACCESS	:	Acute Candesartan Cilxetil Therapy in Stroke Survivors
ACE	:	Angiotensin-converting enzyme
ACEi	:	Angiotensin-converting enzyme inhibitors
ACN	:	Acetonitrile
ACTH	:	Adrenocorticotrophic hormone
AD	:	Alzheimer's disease
AEEA	:	Aminoethylethanolamine
AGT	:	Angiotensinogen
AIF 1	:	Allograft inflammatory factor 1
AMN	:	Amino peptidase M
Ang	:	Angiotensin
Ang (1-7)	:	Asp ¹ -Arg ² -Val ³ -Tyr ⁴ -Ile ⁵ -His ⁶ -Pro ⁷
Ang I	:	Angiotensin I
Ang II	:	Angiotensin II
Ang III	:	Angiotensin III
Ang IV	:	Angiotensin IV
AO	:	Acridine orange
API	:	Active pharmaceutical Ingridient
ARBs	:	Angiotensin receptor blockers
ASD	:	Autism spectrum disorde
AT1R	:	Angiotensin II type 1 receptor
AUC	:	Area Under the Curve
A β	:	Amyloid-beta
BAK	:	B-cell lymphoma 2 (BCL-2) antagonist/killer
BBB	:	Blood brain barrier

BCL	:	B-cell lymphoma
BDNF	:	Brain-derived neurotrophic factor
BIM	:	Bcl-2 homology 3 (BH3)-only protein
BP	:	Blood pressure
BSA	:	Bovine serum albumin
Ca ⁺⁺	:	Calcium ions
CA2	:	<i>Cornu Ammonis</i>
CAGR	:	Compound Annual Growth Rate
CCK-8	:	Cholecystokinin-8
CD40	:	Cluster of differentiation 40
cDNA	:	Complementary Deoxyribonucleic acid
CNS	:	Central nervous system
CNTs	:	Carbon nanotubes
COP	:	Cycloolefin polymer
CQAs	:	Critical Quality Attributes
CRH	:	Corticotropin-releasing hormone
CSF	:	Cerebrospinal fluid
DA	:	Dopamine
DAPI	:	4',6-Diamidino-2-Phenylindole, Dihydrochloride
DCF	:	Dichlorofluorescein
DCFDA	:	2',7'-dichlorodihydrofluorescein diacetate
DDVP	:	Des-amino-8-D-arginine Vasopressin
DIPC	:	N,N'-Diisopropylcarbodiimide
DIPEA	:	N,N-Diisopropylethylamine
DLS	:	Dynamic light scattering
DMEM	:	Dulbecco's Modified Eagle Medium
DMF	:	Dimethylformamide
DMSO	:	Dimethyl sulphoxide
DO	:	Dissolved oxygen
DTNB	:	Ellman's reagent / 5,5-dithiobis (2-nitrobenzoic acid)

ABBREVIATIONS

EB	:	Ethidium bromide
ECL	:	Enhanced chemiluminescence
EDTA	:	Ethylenediamine tetraacetic acid
EEG	:	Electroencephalography
EPR	:	Enhanced Permeability and Retention Effect
FBS	:	Fetal Bovine Serum
FDA	:	Food and Drug Administration
FITC	:	Fluorescein isothiocyanate
FMRI	:	Functional magnetic resonance imaging
FOXO	:	Forkhead box O
FTIR	:	Fourier-transform infrared spectroscopy
g	:	Gram
GAA	:	Glacial acetic acid
GABA	:	Gamma-aminobutyric acid
GAD	:	Generalized anxiety disorder
GC	:	Gas Chromatography
GFAP	:	Glial fibrillary acidic protein
GLP-1	:	Glucagon-like peptide-1
GPCR	:	G-protein coupled receptor
GSAD	:	Generalised Social Anxiety Disorder
GSH	:	Glutathione
GTP	:	Guanosine triphosphate
HBSS	:	Hanks' Balanced Salt Solution
HC	:	Healthy control
HDPE	:	High Density Polyethylene
HDVs	:	Hepatocyte-Directed Vesicles
HOBt	:	Hydroxybenzotriazole
HOPE	:	Heart Outcome Prevention Evaluation
HPA	:	Hypothalamic-pituitary-adrenal
HPLC	:	High-performance liquid chromatography

HP β CD	:	Hydroxy propyl beta cyclodextrin
HRMS	:	High-resolution mass spectrometry
HR-TEM	:	High Resolution Transmission Electron Microscopy
HSPC	:	Hydrogenated Soybean Phosphatidylcholine
HVA	:	Homovanillic acid
IC	:	Ion Chromatography
ICH	:	International Conference on Harmonization
ICP	:	Intracranial pressure
IFA	:	Immunofluorescence assay
IL-6	:	Interleukin-6
IM	:	Intramuscular
IMA	:	Indian Medical Association
IN	:	Intanasal
IP	:	Intraperitoneal
IQ	:	Intelligence quotient
IU	:	International unit
IV	:	Intravenous
K-ATP	:	Potassium-sensitive adenosine triphosphate
KBr	:	Potassium bromide
KF	:	Karl Fischer
Kg	:	Kilogram
KV	:	Kilovolt
L	:	Litre
LCL	:	Lower control limit
LDCs	:	Lipid-drug conjugates
Leu-ENK	:	Leu-enkephalin
LOD	:	Limits of Detection
LOQ	:	Limits of Quantification
LPHNPs	:	Lipid-polymer hybrid nanoparticles
LPS	:	Lipopolysaccharide

ABBREVIATIONS

MAM	:	Methylazoxymethanol acetate
MCN	:	Magnocellular neurons
MDA	:	Malondialdehyde
MDD	:	Major Depressive Disorder
MET-ENK	:	Met-enkephalin
mg	:	Milligram
MgCl ₂	:	Magnesium chloride
MHz	:	Megahertz
mL	:	Milliliter
MLCK	:	Myosin Light Chain Kinase
MNPs	:	Metallic nanoparticles
MOC	:	material of construction
MPEG (2000)- DSPE	:	Sodium;[(2R)-2,3-di(octadecanoyloxy)propyl] 2-(2-methoxyethoxycarbonylamino)ethyl phosphate
MPTP	:	1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine
mRNA	:	Messenger RiboNucleic Acid
MTT	:	(3-(4, 5-dimethylthiazolyl-2)-2, 5-diphenyltetrazolium bromide)
MWM	:	Morris Water Maze
N ₂	:	Nitrogen
NaOH	:	Sodium Hydroxide
NC	:	Nitrocellulose
NEP	:	Neutral Endopeptidase
NFκB	:	Peroxidase-conjugated secondary antibodies
NFKβ	:	Nuclear factor kappa B
ng	:	Nanogram
NIOH	:	The National Institute of Occupational Health
NLCs	:	Nanostructured lipid carriers
NLEM	:	National List of Essential Medicines
NLT	:	Not Less Than

nm	:	Nanometer
NMR	:	Nuclear magnetic resonance
NMT	:	Not More Than
NO	:	Nitric oxide
NPs	:	Nanoparticles
NRF 2	:	Nuclear related factor 2
NVs	:	Nanovesicles
OCD	:	Obsessive-compulsive disorder
ODS	:	Octadecyl-Silica
OXT	:	Oxytocin
OXTR	:	Oxytocin receptor
Oxy-NVs	:	Oxytocin loaded nanovesicles
PaCO ₂	:	Partial pressure of carbon dioxide
PANSS	:	Positive and Negative Symptom Scale
PBS	:	Phosphate Buffer Saline
PBST	:	Phosphate Buffered Saline with Tween 20
PD	:	Parkinson's disease
PDI	:	Polydispersity index
PEP	:	Prolyl Endopeptidase
PES	:	Polyethersulfone
pg	:	Picogram
PGF ₂ α	:	Prostaglandin F ₂ α
PgP	:	P-glycoprotein
PI	:	Propidium iodide
PLC	:	Phospholipase C
PLGA	:	Poly Lactic-co-Glycolic Acid
PM	:	Packaging materials
PMA	:	Phorbol 12-myristate 13-acetate
PMT	:	Particulate matter Test
ppm	:	Parts per million

PROGRESS	:	Perindopril Protection Against Recurrent Stroke Study
PRRs	:	Pro-renin receptors
PS	:	Particle size
PTSD	:	Post-traumatic stress disorder
PVDF	:	Polyvinylidene difluoride
PVN	:	Paraventricular nucleus
QDs	:	Quantum dots
qRT-PCR	:	Quantitative real-time reverse-transcription Polymerase Chain Reaction
RAS	:	Renin Angiotensin System
RH	:	Relative humidity
RIPA	:	Ristocetin-induced platelet aggregation
RMET	:	Reading the Mind in the Eyes Test
RNA	:	Ribonucleic acid
RO	:	Reverse Osmosis
ROS	:	Reactive Oxygen Species
rpm	:	Revolutions per minute
RSD	:	Relative Standard Deviation
RTI	:	Ready to Infuse
RVLM	:	Rostral ventrolateral medulla
SCP	:	Scopolamine
SCZ	:	Schizophrenia
SD	:	Standard Deviation
SDS	:	Sodium dodecyl sulphate
SDS-PAGE	:	Sodium dodecyl-sulfate polyacrylamide gel electrophoresis
SHR	:	Spontaneously hypertensive rats
SIADH	:	Syndrome of unsuitable antidiuretic hormone secretion
siRNA	:	Small interfering RNA
SMBS	:	Sodium Metabisulphite
SNPs	:	Single nucleotide polymorphisms

ABBREVIATIONS

SON	:	Supraoptic nucleus
SP	:	Substance-P
spSHR	:	Stroke-prone hypertensive rats
SRIF	:	Cerebral cortex
SS	:	Stainless Steel
TBARS	:	Thiobarbituric acid reactive substance
TFA	:	Trifluoroacetic Acid
tid	:	Three times a day
TMP	:	1,1,3,3-tetramethoxy propane
TRH	:	Thyrotropin-releasing hormone
TS	:	Tourette syndrome
UCL	:	Upper control limit
USA	:	United States of America
USFDA	:	United State Food and Drug Administration
UV	:	Ultraviolet
Vas-NVs	:	Vasopressin loaded nanovesicles
VCR	:	Vincristine
VDDSs	:	Vesicular Drug Delivery Systems
VP	:	Vasopressin
WFI	:	Water for injection
WHO	:	World Health Organization
ZP	:	Zeta potential
ZS	:	Zeta sizer
µg	:	Microgram
µL	:	Microlitre