

## Abbreviations

AD	Alzheimer disease
ANOVA	Analysis of variance
CAT	Catalase
CF	Cystic fibrosis
CFU	Colony forming units
CNBr	Cyanogen bromide
CO3	Complement C3
DBP	Vitamin D-binding protein
DNA	Deoxyribonucleic acid
DTT	Dithiothreitol
EC	Endothelial cell
ELISA	Enzyme-linked immuno sorbent assay
EPC	Bone marrow-derived endothelial progenitor cell
ER	Endoplasmic reticulum
ERAD	ER associated degradation
FDA	Food and Drug Administration
FH	Familial hypercholesterolemia
Fv	VH and VL combined
GBM	Glomerular basement membrane
GMP	Good manufacturing process
GP	Goodpasture
GPX	Glutathione peroxidase
GRAS	Generally recognized as safe
GRD	Glutathione reductase
GRP78	Glucose regulated protein 78kDa
GSH	Glutathione
GST	Glutathione S-transferase
H <sub>2</sub> O	Water
H <sub>2</sub> O <sub>2</sub>	Hydrogen peroxide
HSA	Human serum albumin
HSP	Heat-shock protein
HUVEC	Human umbilical vein endothelial cell
IgG	Immunoglobulin G
IL	Interleukin

IGF	Insulin growth factor
MCS	Multiple cloning site
MS	Mass spectrometry
mtDNA	Mitochondrial DNA
NHS	N-hydroxysuccinimide
NLS	Nuclear localization signal
O <sub>2</sub>	Oxygen
•O <sub>2</sub> <sup>-</sup>	Superoxide anion radical
•OH	Hydroxyl radical
PAI-1	Plasminogen activator inhibitor type 1
PBC	Primary Biliary Cirrhosis
PDI	Protein disulfide isomerase
PRD	Peroxireductase
ROS	Reactive oxygen species
scFv	VH and VL combined with a synthetic linker
SLE	Systemic Lupus Erythmatosus
TGF	Transforming growth factor
TNFα	Tumor necrosis factor alpha
TPX	Thioredoxin peroxidase
TRD	Thioredoxin reductase
TropC	Troponin C
UPR	Unfolded protein response
VH	Variable heavy chain domain of a classical antibody
VHH	Variable heavy chain domain of a heavy chain antibody
VL	Variable light chain domain
2D-DIGE	Two-dimensional difference gel electrophoresis
2D-GE	Two-dimensional gel electrophoresis

