

List of Symbols & Abbreviations

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Å	Angström
Apo	Apolipoprotein
ACAT	Acyl CoA Transferase
ACL	ATP Citrate Lyase
AIDS	Acquired Immune Deficiency Syndrome
AMPK	Adenosine Monophosphate-activated Protein Kinase
aq.	Aqueous
BAPN	β -aminopropionitrile
β -lactum	<i>Beta</i> -lactam
CHD	Coronary Heart Disease
CVD	Cardio Vascular Disease
CAD	Coronary Arterial Disease
CNS	Central Nervous System
CETP	Cholesterol Ester Transfer Protein
Cat K	Cathepsin k
CoQ10	Coenzyme Q10
CHF	Congestive Heart Failure
C.E.	Cholesterol Ester
C.O.	Cholesterol Oxidase
CRP	C-reactive Protein
°C	degree Celsius
cm ⁻¹	Reciprocal Centimeters
conc.	Concentrated
CDCl ₃	Deuterated Chloroform
CAS	Chemical Abstracts Service
DGAT	Diacylglycerol O-acyltransferase
DKO	Double-Knockout
DHP- I	Dehydropeptidase -I
DM	Diabetes Mellitus
DMF	<i>N,N</i> -Dimethylformamide
DCM	Dichloromethane
DMSO	Dimethyl Sulfoxide

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DMSO- <i>d</i> ₆	Deuterated Dimethyl Sulfoxide
EZE	Ezetimibe
EZE-gluc	Ezetimibe-glucoronide
ER	Endoplasmic Reticulam
eV	Electron Volt
FXR-RXR	Farnesiod X Receptor-Retinoid X Receptor
GIT	Gastro Intestinal Tract
GLIDE	Grid Based Ligand Docking with Energetics
GC-MS	Gas Chromatography-Mass Spectrometry
g	Gram(s)
h	Hour(s)
HDL	High-Density Lipoprotein
HMG-CoA	3-Hydroxy-3-methyl-glutaryl-coenzyme A
HIV	Human Immunodeficiency Virus
HLE	Human Leukocyte Elastase
HCMV	Human Cytomegalovirus
HPLC	High-Performance Liquid Chromatography
HCT	Human Colorectal Carcinoma Cells
HCl	Hydrochloric Acid
¹ H NMR	Proton Nuclear Magnetic Resonance spectroscopy
INSIG	Insulin-Induced Genes
INH	Isoniazid
IDL	Intermediate-density lipoprotein
IUPAC	International Union of Pure and Applied Chemistry
IAEC	Institutional Animal Ethics Committee
<i>i.p.</i>	Intraperitoneal
<i>J</i>	Coupling Constant
KBr	Potassium Bromide
LDL	Low-Density Lipoprotein
LPL	Lipoprotein Lipase
LCAT	Lecithin Cholesterol Acyl Transferase
LXR	Liver X Receptor
LDM	Lanosterol 14 α -demethylase

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MOA	Mechanism of Action
mic	Minimum Inhibitory concentration
MRSA	Methicillin-Resistant <i>Staphylococcus Aureus</i>
MWI	Microwave Irradiation
MDR-TB	Multi-Drug-Resistant Tuberculosis
MABA	Microplate Alamar Blue Assay
<i>Mtb</i>	<i>Mycobacterium tuberculosis</i>
MMP	Metrix Metalloproteinase
MTP	Microsomal Triglyceride transfer Protein
miR	Micro RNAs
mol	Mole(s)
<i>m/z</i>	Mass-to-Charge Ratio
MHz	Mega Hertz
mg	Milligram
ml	Milliliter
min	Minutes
NADPH	Nicotinamide Adenine Dinucleotide Phosphate
NPC1L1	Niemann-Pick C1-Like 1
NSAIDS	Non-Steroidal Anti-Inflammatory Drugs
NDDR	New Drug Discovery Research
NTD	N-Terminal Domain
NMRI	Naval Medical Research Institute
NF- κ B	Nuclear Factor kappa-light-chain-enhancer of activated B cells
nm	Nanometer
NaHCO ₃	Sodium Bicarbonate
NaCl	Sodium Chloride
Na ₂ SO ₄	Sodium Sulfate
OSC	2,3-Oxidosqualene lanosterol cyclase
OSBT	Orthotopic Small Bowel Transplantation
PDB	Protein Data Bank
PUFA	Polyunsaturated Fatty Acids
PM	Plasma Membrane
PBP	Penicillin Bonding Protein

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Pht	Phthalimido
PSA	Prostate-Specific Antigen
PPE	Porcine Pancreatic Elastase
p-JNK	phosphorylated c-Jun N-terminal Kinase
PCSK9	Proprotein Convertase Subtilisin/Kexin type 9
PPAR- α	Peroxisome Proliferator-Activated Receptors- α
PPAR- δ	Peroxisome Proliferator-Activated Receptors- δ
PPAR- γ	Peroxisome Proliferator-Activated Receptors- γ
ppm	Parts Per Million
<i>p.o.</i>	<i>per os</i> (through the mouth)
QSAR	Quantitative Structure-Activity Relationships
RT	Room Temperature
RBF	Round Bottom Flask
RCT	Reverse Cholesterol Transport
RSCB	Research Collaboratory for Structural Bioinformatics
rpm	Rotation Per Minute
SAR	Structure-Activity Relationships
SqS	Squalene Synthase
SQLE	Squalene Epoxidase
SR-BI	Scavenger Receptor class B-type-I
SREBP	Sterol Regulatory Element-Binding Protein
SCAP	SREBP Cleavage-Activating Protein
Sp. gr.	Specific Gravity
TB	Tuberculosis
TTA	Tetradecylthioacetic acid
TZDs	Thiazolidinediones
VLDL	Very-Low-Density Lipoprotein
w/v	Weight by Volume
XDR-TB	Extensively multi-drug-resistant tuberculosis
2D	Two-dimensional
3D	Three-dimensional
%	Percentage
δ	Delta

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