

Abbreviations

Listed below are abbreviations and their definitions. These may be used without definition in the APS Journals. See Information for Authors (www.the-aps.org/publications/journals/pub_quick.htm) for other abbreviations, symbols, and terminology.

ACH	acetylcholine	IL-1	interleukin-1 (IL-2, etc.)
ACTH	adrenocorticotropic hormone	IRMS	isotope ratio mass spectrometry
ADP (CDP, GDP, IDP, UDP, XDP, TDP)	adenosine 5'-diphosphate (and similarly for cytidine, guanosine, inosine, uridine, xanthosine, thymidine)	JAK	Janus-activated kinase
AM	acetoxymethyl ester	JNK	c-Jun NH ₂ -terminal kinase
AMP, etc.	adenosine 5'-monophosphate, etc.	JNKK	JNK kinase
ANG I, etc.	angiotensin I, etc.	kb	kilobase(s)
ANOVA	analysis of variance	K _m	equilibrium constant related to Michaelis-Menten kinetics (similarly, K _d , K _a , K _{eq} , K _s)
ATP, etc.	adenosine 5'-triphosphate, etc.	LDL	low-density lipoprotein
ATPase, etc.	adenosine 5'-triphosphatase, etc.	LH	luteinizing hormone
AVP	arginine vasopressin	LH-RH	luteinizing hormone-releasing hormone
BAPTA	1,2-bis(2-aminophenoxy)ethane- <i>N,N,N',N'</i> -tetraacetic acid	LPS	lipopolysaccharide
BCECF	2',7'-bis(2-carboxyethyl)-5(6)-carboxyfluorescein	MAB	monoclonal antibody
bp	base pair(s)	MAPK	mitogen-activated protein kinase
BSA	bovine serum albumin	MAPKK	MAP kinase kinase (also known as MEK or MKK)
CaM	calmodulin	MAPKAPK	MAP kinase activated protein kinase
CaMK	Ca ²⁺ /calmodulin-dependent kinase	MEM	Eagle's minimum essential medium
CaMKK	CaMK kinase	MES	2-(<i>N</i> -morpholino)ethanesulfonic acid
cAMP, etc.	adenosine 3',5'-cyclic monophosphate, etc.	MKP	MAP kinase phosphatase
CCCP	carbonyl cyanide <i>m</i> -chlorophenylhydrazine	MOPS	3-(<i>N</i> -morpholino)propanesulfonic acid
CCK	cholecystokinin	MPO	myeloperoxidase
cDNA	complementary DNA	<i>M_r</i>	relative molecular mass (unitless)
CFTR	cystic fibrosis transmembrane conductance regulator	MRI	magnetic resonance imaging
CGRP	calcitonin gene-related peptide	MSH	melanocyte-stimulating hormone
CoA	coenzyme A (also, acyl-CoA)	NAD	nicotinamide adenine dinucleotide
CRF	corticotropin-releasing factor	NADH	reduced nicotinamide adenine dinucleotide
DDAVP	desmopressin	NADP	nicotinamide adenine dinucleotide phosphate
DEAE	diethylaminoethyl	NF-κB	nuclear factor-κB
DIDS	4,4'-diisothiocyano stilbene-2,2'-disulfonic acid	NGF	nerve growth factor
DMEM	Dulbecco's modified Eagle's medium	NMR	nuclear magnetic resonance
DMSO	dimethyl sulfoxide	NSAID	nonsteroidal anti-inflammatory drug
DNA	deoxyribonucleic acid	nt	nucleotide(s)
DNase	deoxyribonuclease	PAGE	polyacrylamide gel electrophoresis
DOC	deoxycorticosterone	PAH	<i>p</i> -aminohippuric acid
DOCA	deoxycorticosterone acetate	PBS	phosphate-buffered saline
dpm	disintegrations per minute	PCNA	proliferating cell nuclear antigen
DTNB	5,5'-dithiobis(2-nitrobenzoic acid)	PCR	polymerase chain reaction
DTT	dithiothreitol	PDGF	platelet-derived growth factor
EC ₅₀	concentration giving half-maximal response	PET	positron emission tomography
ECG	electrocardiogram	PG	prostaglandin (PGE ₁ , PGE ₂ , PGF ₂)
ECM	extracellular matrix	P _i	inorganic phosphate
EDTA	ethylenediaminetetraacetic acid	PIPES	piperazine- <i>N,N'</i> -bis(2-ethanesulfonic acid)
EEG	electroencephalogram	PKA	cAMP-dependent protein kinase
EGF	epidermal growth factor	PKB, PKC	protein kinase B and C
EGTA	ethylene glycol-bis(β-aminoethyl ether)- <i>N,N,N',N'</i> -tetraacetic acid	PLC	phospholipase C (similarly, PLA)
EIPA	ethylisopropyl amiloride	PMA	phorbol 12-myristate 13-acetate
ELISA	enzyme-linked immunosorbent assay	PMSF	phenylmethylsulfonyl fluoride
EMSA	electrophoretic mobility shift assay	Po ₂	partial O ₂ pressure or O ₂ tension (similarly, P _{CO2})
ERK	extracellular signal-regulated kinase	POPOP	1,4-bis[2-(5-phenyloxazolyl)]benzene
FAD	flavin adenine dinucleotide	PPO	2,5-diphenyloxazole
FADH ₂	reduced flavin adenine dinucleotide	psi	pounds per square inch
FBS, FCS	fetal bovine/calf serum	PTK	protein tyrosine kinase
FCCP	carbonyl cyanide <i>p</i> -trifluoromethoxyphenylhydrazine	RIA	radioimmunoassay
FGF	fibroblast growth factor	RNA	ribonucleic acid (also, mRNA, nRNA, rRNA, tRNA)
FITC	fluorescein isothiocyanate	RNase	ribonuclease
FSH	follicle-stimulating hormone	rpm	revolutions per minute
GABA	γ-aminobutyric acid (also, "GABAergic")	RT	reverse transcriptase
GAP	growth-associated protein	SAPK	stress-activated protein kinase
GAPDH	glyceraldehyde-3-phosphate dehydrogenase	SAPKK	stress-activated protein kinase kinase (also known as SKK)
GC-MS	gas chromatography-mass spectrometry	SDS	sodium dodecyl sulfate
GDPβS	guanosine 5'- <i>O</i> -(2-thiodiphosphate)	SITS	4-acetamido-4'-isothiocyano stilbene-2,2'-disulfonic acid
GSH, GSSG	reduced and oxidized glutathione	SSC	standard sodium citrate
GTPγS	guanosine 5'- <i>O</i> -(3-thiotriphosphate)	SOD	superoxide dismutase
GSK	glycogen synthetase kinase	STAT	signal transducer and activator of transcription
Hb	hemoglobin	TAME	<i>N</i> α- <i>p</i> -tosyl-L-arginine methyl ester
HBSS	Hanks' balanced salt solution	TCA	trichloroacetic acid
Hct	hematocrit	TEAE	triethylaminoethyl
HDL	high-density lipoprotein	TES	<i>N</i> -tris(hydroxymethyl)methyl-2-aminoethanesulfonic acid
HEPES	<i>N</i> -2-hydroxyethylpiperazine- <i>N'</i> -2-ethanesulfonic acid	TLC	thin-layer chromatography
HETE	hydroxyeicosatetraenoic acid	TNF	tumor necrosis factor
HPLC	high-performance liquid chromatography	TPA	12- <i>O</i> -tetradecanoylphorbol 13-acetate
5-HT	5-hydroxytryptamine (serotonin)	TPCK	<i>N</i> -tosyl-L-phenylalanine chloromethyl ketone
IBMX	3-isobutyl-1-methylxanthine	TRH	thyrotropin releasing hormone
IC ₅₀	concentration giving half-maximal inhibition	Tris	tris(hydroxymethyl)aminomethane
ICAM	intercellular adhesion molecule	TSH	thyroid-stimulating hormone
IFN	interferon	TTX	tetrodotoxin
IGF-I, -II	insulin-like growth factor I and II	UV	ultraviolet
IgG, etc.	immunoglobulin G, etc.	VCAM	vascular cell adhesion molecule
IKK	IκB kinase	VEGF	vascular endothelial growth factor
		VIP	vasoactive intestinal peptide
		VLDL	very low-density lipoprotein
		V _{max}	maximum velocity or maximum rate of change or transition