

Name	The search strategy detects ...	Enzyme	Formula
2-amino-3-oxo-butanoic_acid (SY)		all	-H2
4a-(S-cysteiny)FMNC (C)		all	+H21C17N4O9P
4-hydroxynonenal (HNE) (CHK)		all	+H16C9O2
4-methyl-delta-1-pyrroline-5-carboxyl (K)		all	+H7C6NO
Acetylation (C)		all	+H2C2O
Acetylation (K)	acetylation of lysine	all	+H2C2O
Acetylation (S)		all	+H2C2O
Alpha-amino adipic acid (K)		all	-H3N+O2
Amidation (C-term)		all	+HN-O
Amidino (C)		all	+H2CN2
AMP binding site (HKTY)		all	+H12C10N5O6P
Beta-methylthiolation (D)	beta-methylthiolation of glutamic acid	all	+H2CS
Biotinylation (K)	biotinylation of lysine	all	+H14C10N2O2S
Bromination (FHW)		all	-H+Br
Carbamidomethyl (C)		all	+C2H3ON
Carbamylation (K)	carbamylation of lysine	all	+HCNO
Carbamylation (N-Term)		all	+HCNO
Carboxyethyl (K)		all	+H4C3O2
Cholesterol ester (C-term)		all	+H44C27
Chymotryptic cleavage (one end)	peptides which have one end chymotryptically cleaved and the other end tryptically	Trypsin [KR]	-
Chymotryptic cleavage (two ends)		Trypsin [KR]	-
Cis-14-hydroxy-10,13-dioxo-7-heptadecenoic ester (D)		all	+H26C17O4
Coenzyme A (C)		all	+H34C21N7O16P3S
Copper sulfido molybdopterin cytosine dinucleotide (C)		all	+H24C19N8O15P2S3CuM o
Cyano (C)		all	-H+CN
Deamidation (NQ)	deamidation of asparagine and glutamine	all	+O-HN
Deamidation (N-term)		all	-HN+O
Deamidation (R)		all	-HN+O
Decanoyl (ST)		all	+H18C10O
Dehydroalanine (Y)		all	-H6C6O
Deoxy (D)		all	-O
Diacylglycerol (C)		all	+H68C37O4
Diglutamyl (C-term)		all	+H14C10N2O6
Diglutamyl (E)		all	+H14C10N2O6
Dihydroxy (CKPRYST)		all	+O2
Dimethylation (KR)		all	+H4C2
Dimethylation (N-term)		all	+H4C2
Dimethylation (P)		all	+H5C2
Diphthamide (H)		all	+H15C7N2O
Dipyrrolylmethanemethyl (C)		all	+H22C20N2O8
Ethylation (K)		all	+H4C2
Ethylation (N-Term)		all	+H4C2
Farnesylation (C)	farnesylation of cysteine	all	+H24C15

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Flavin adenine dinucleotide (CHY)		all	+H31C27N9O15P2
Flavin mononucleotide (CH)		all	+H19C17N4O9P
Formylation (N-term)		all	+CO
Gamma-carboxylation (DE)	gama-carboxylation of aspartic acid and glutamic acid	all	+CO2
Geranyl-geranyl (C)	geranyl-geranyl modification of cysteine	all	+H32C20
Glutathione disulfide (C)	glutathione disulfide modification of cysteine	all	+H15C10N3O6S
Glycerophospho (S)		all	+H7C3O5P
Glycerolphosphorylethanolamine (E)		all	+H12C5NO5P
Glycosylphosphatidylinositol (C-term)		all	+H6C2NO3P
Heme (CH)		all	+H32C34N4O4Fe
Hydrogenase diiron subcluster (C)		all	-H+C5N2O5S2Fe2
Hydroxycinnamyl (C)		all	+H6C9O2
Hydroxyfarnesyl (C)		all	+H24C15O
Hydroxyheme (E)		all	+H30C34N4O4Fe
Hydroxylation (DKNP)	hydroxylation of asp, lys, arg, pro	all	+O
Hydroxymethyl (N)		all	+H2CO
Hypusine (K)		all	+H9C4NO
ICAT heavy (C)		all	+C[13]9C[12]1H17N3O3
ICAT light (C)		all	+C10H17N3O3
ICPL heavy (K)		all	+C[13]6H3NO
ICPL light (K)		all	+C6H3NO
ICPL medium (K)		all	-H+C6D4NO
K loss (C-term)		all	-H12C6N2O
Lactic acid (S)		all	-H1N1
L-allysine (K)		all	-H3N+O
Levuglandinyl - arginine hydroxylactam adduct (R)		all	+H26C19O5-N2
Levuglandinyl - arginine lactam adduct (R)		all	+H26C19O4-N2
Levuglandinyl - lysine hydroxylactam adduct (K)		all	+H28C20O5
Levuglandinyl - lysine hydroxylactam adduct (N-term)		all	+H28C20O5
Levuglandinyl - lysine lactam adduct (K)		all	+H28C20O4
Levuglandinyl - lysine lactam adduct (N-term)		all	+H28C20O4
Lipoyl (K)		all	+H12C8OS2
Loss of ammonia (N-term)		all	-H3N1
Methylation (CDEHKNQRST)	methylation of cys, asp, glu, his, lys, arg, gln, asp, ser, thr	all	+H2C
Methylation (C-term)		all	+H2C
Methylation (N-term)		all	+H2C
Methylation and Deamidation (Q)		all	+HCO-N
Microcin (C-term)		all	+H37C36N3O20
MicrocinC7 (C-term)		all	+H19C13N6O6P
Molybdopterin (C)		all	+H11C10N5O8PS2Mo
Monoglutamyl (E)		all	+H7C5NO3
Myristoleylation (N-term)		all	+H24C14O
Myristoyl-4H (N-term)		all	+H22C14O

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Myristoylation (K)	myristoylation of lysine	all	+H26C14O
N-Acetylhexosamine (NST)		all	+C8H13NO5
N-acyl diglyceride cysteine (C)	N-acyl diglyceride of cysteine	all	+H96C51O5
N-formyl met (N-term)		all	+H9C6NO2S
N-glucuronoylation (S)		all	+H8C6O6
Nitroalkylation by nitro linoleic acid (CH)		all	+H31C18NO4
Nitroalkylation by nitro oleic acid (C)		all	+H33C18NO4
No enzyme (one end)	peptides wich are one side tryptically cleaved and on the other side non tryptically cleaved	Trypsin [KR]	-
No enzyme (two ends)	peptides which have no specific cleavage at both ends of the peptide.	Trypsin [KR]	-
N-pyruvic acid 2-iminy (K)		all	+H2C3O2
N-pyruvic acid 2-iminy (N-term)		all	+H2C3O2
N-terminal acetylation	N-terminal protein modification. Not on amino acids Asp, lys, arg, his, trp, phe, tyr.	all	+H2C2O
N-terminal myristoylation (G)	N-terminal peptide myristoylation of glycine	all	+H26C14O
O3-seryl FMN (ST)		all	+H19C17N4O8P
Octanoyl (S)		all	+H14C8O
Oxidation (M)	oxidation of Methionine	all	+O
Oxoalanine (C)		all	-H2S+O
Palmitoleyl (C)		all	+H28C16O
Palmitoylation (CKST)	palmitoylation of cys, lys, ser, thr	all	+H30C16O
Phenylactyl (N-term)		all	+H4C4O3
Phospho-guanosine (HK)		all	+H12C10N5O7P
Phosphophantetheine (S)	phosphophantetheine modification of serine	all	+H20C11N2O6PS
Phosphoribosyl dephospho-coenzyme A (S)		all	+H42C26N7O19P3S
Phosphorylation (C)		all	+HO3P
Phosphorylation (D)		all	+HO3P
Phosphorylation (H)		all	+HO3P
Phosphorylation (R)		all	+HO3P
Phosphorylation (STY)	phosphorylation of serine threonine, and tyrosine	all	+HPO3
Phosphorylation (STY) and chymotryptic cleavage		Trypsin [KR]	+HPO3
Phycocyanobilin (C)		all	+H38C33N4O6
Phycocerythrobilin (C)		all	+H40C33N4O6
Propionamide (C)	acrylamide modification of cysteine	all	+C3H5ON
Pyridoxal phosphate (K)		all	+H8C8NO5P
Pyro-glutamine (Q)	pyroglutamine formation from N-terminal Glutamine of a peptide	all	-H3N
Pyruvat (C)	pyruvat modification of cysteine	all	+H2C3O2
Pyruvic acid from N-term cys (N-term)		all	-H3NS+O
Quinone (WY)		all	
Retinal (K)		all	+H26C20

Name	The search strategy detects ...	Enzyme	Formula
S-diphytanylglycerol diether (C)		all	+H86C43O2
Selenyl (C)		all	+Se
S-nitrosylation (C)		all	-H+NO
Sodiated (DE)	sodium adducts on aspartic acid and glutamic acid	all	+Na
Substitution	single amino acid substitutions which are based on single nucleotide substitutions	all	-
Sulfation (Y)	sulfation of tyrosine	all	+O3S
Sulphone (M)		all	+O2
Tetraglutamyl (C-term)		all	+H28C20N4O12
Tetraglutamyl (E)		all	+H28C20N4O12
Thiocarboxylic acid (C-term)		all	-O+S
Triglutamyl (C-term)		all	+H21C15N3O9
Triglutamyl (E)		all	+H21C15N3O9
Triiodo (Y)		all	+HC6OI3
Trimethylation (KR)		all	+H6C3
Trimethylation (N-term)		all	+H6C3
Trimethyl-OH (K)		all	+H7C3O
Unknown shift	peptides with an unknown mass shift, which is calculated from the difference of the measured parent mass and the theoretical parentmass of a peptide. This search strategy basically aims at detection of peptides which have not been covered by other search strategies.	all	-
Uridine phosphodiester (HY)		all	+H11C9N2O8P