

|                                   |                                   |                                 |                       |
|-----------------------------------|-----------------------------------|---------------------------------|-----------------------|
| 1,3-Diaminopropane                | 3-(4-Hydroxyphenyl)propionic acid | 5'-Deoxy-5'-methylthioadenosine | Arg                   |
| 11-Aminoundecanoic acid           | 3-Aminobutyric acid               | 5-Hydroxyindoleacetic acid      | Arg-Glu               |
| 1-Methyl-2-pyrrolidone            | 3-Aminoisobutyric acid            | 5-Hydroxylysine                 | Arginine ethyl ester  |
| 1-Methyladenosine                 | 3-Aminopropane-1,2-diol           | 5-Hydroxytryptophan             | Ascorbate 2-phosphate |
| 1-Methylnicotinamide              | 3'-AMP                            | 5-Methyl-2'-deoxycytidine       | Ascorbate 2-sulfate   |
| 2,3-Diphosphoglyceric acid        | 3-Hydroxy-3-methylglutaric acid   | 5-Methylcytosine                | Asn                   |
| 2,4-Diaminobutyric acid           | 3-Hydroxyanthranilic acid         | 5-Oxohexanoic acid              | Asp                   |
| 2,5-Dihydroxybenzoic acid         | 3-Hydroxybutyric acid             | 5-Oxoproline                    | ATP                   |
| 2-Amino-2-methyl-1,3-propanediol  | 3-Hydroxypropionic acid           | 6-Aminohexanoic acid            | Benzoic acid          |
| 2-Amino adipic acid               | 3-Indoxylsulfuric acid            | 6-Phosphogluconic acid          | Benzoylformic acid    |
| 2-Aminobutyric acid               | 3-Methoxytyramine                 | 7-Methylguanine                 | Betaine               |
| 2-Aminoethylphosphonic acid       | 3-Methyladenine                   | Acetyl CoA_divalent             | Betaine aldehyde      |
| 2-Aminoisobutyric acid            | 3-Phenyllactic acid               | Adenine                         | Biopterin             |
| 2'-Deoxycytidine                  | 3-Phenylpropionic acid            | Adenosine                       | Biotin                |
| 2-Hydroxy-4-methylvaleric acid    | 3-Phosphoglyceric acid            | ADP                             | Cadaverine            |
| 2-Hydroxybutyric acid             | 3-Ureidopropionic acid            | Adrenaline                      | Caffeine              |
| 2-Isopropylmalic acid             | 4-(β-Acetylaminoethyl)imidazole   | Agmatine                        | cAMP                  |
| 2-Methylserine                    | 4-Acetamidobutanoic acid          | Ala                             | Carnitine             |
| 2-Oxoadipic acid                  | 4-Amino-3-hydroxybutyric acid     | Ala-Ala                         | Carnosine             |
| 2-Oxoglutaric acid                | 4-Aminohippuric acid              | Allantoic acid                  | CDP                   |
| 2-Oxoisovaleric acid              | 4-Guanidinobutyric acid           | Allantoin                       | CDP-choline           |
| 2-Phenylethylamine                | 4-Oxovaleric acid                 | Aminoacetone                    | cGMP                  |
| 2-Phosphoglyceric acid            | 4-Pyridoxic acid                  | AMP                             | Choline               |
| 3-(2-Hydroxyphenyl)propionic acid | 5-Amino-4-oxovaleric acid         | Anserine                        | cis-4-Hydroxyproline  |
|                                   | 5-Aminovaleric acid               | Anthranilic acid                | cis-Aconitic acid     |

|                            |                            |                        |                         |
|----------------------------|----------------------------|------------------------|-------------------------|
| Citraconic acid            | Ectoine                    | Glyceric acid          | Hydroxyproline          |
| Citramalic acid            | Erythrose 4-phosphate      | Glycerol 3-phosphate   | Hypotaurine             |
| Citric acid                | Ethanolamine               | Glycerophosphocholine  | Hypoxanthine            |
| Citrulline                 | Ethanolamine phosphate     | Glycolic acid          | IDP                     |
| CMP                        | Ferulic acid               | Gly-Gly                | Ile                     |
| CoA                        | FMN                        | Gly-Leu                | Imidazole-4-acetic acid |
| Creatine                   | Fructose 1,6-diphosphate   | Glyoxylic acid         | Imidazolelactic acid    |
| Creatinine                 | Fructose 6-phosphate       | GMP                    | IMP                     |
| CTP                        | Fumaric acid               | GTP                    | Indole-3-acetamide      |
| Cys                        | GABA                       | Guanidinosuccinic acid | Indole-3-acetic acid    |
| Cys-Gly                    | GDP                        | Guanidoacetic acid     | Indole-3-ethanol        |
| Cystathionine              | Gln                        | Guanine                | Inosine                 |
| Cysteic acid               | Glu                        | Guanosine              | Isethionic acid         |
| Cystine                    | Gluconic acid              | Heptanoic acid         | Isoamylamine            |
| Cytidine                   | Glucosamine 6-phosphate    | Hippuric acid          | Isobutylamine           |
| Cytosine                   | Glucosaminic acid          | His                    | Isocitric acid          |
| dATP                       | Glucose 1-phosphate        | His-Glu                | Isoglutamic acid        |
| dCTP                       | Glucose 6-phosphate        | Histamine              | Isonicotinamide         |
| Decanoic acid              | Glu-Glu                    | Histidinol             | Isonicotinic acid       |
| Dihydroxyacetone phosphate | Glutaric acid              | Homoarginine           | Kynurenic acid          |
| DOPA                       | Glutathione (GSH)          | Homocitrulline         | Kynurenine              |
| Dopamine                   | Glutathione (GSSG)         | Homocysteic acid       | Lactic acid             |
| dTDP                       | Gly                        | Homocysteine           | Leu                     |
| dTMP                       | Gly-Asp                    | Homoserine             | Lys                     |
| dTTP                       | Glyceraldehyde 3-phosphate | Homovanillic acid      | Maleic acid             |

|                                     |                            |                            |                            |
|-------------------------------------|----------------------------|----------------------------|----------------------------|
| Malic acid                          | N-Acetylglycine            | N-Methyltryptophan         | Phosphorylcholine          |
| Malonyl CoA                         | N-Acetylhistidine          | Noradrenaline              | p-Hydroxybenzoic acid      |
| Melatonin                           | N-Acetylleucine            | Normetanephrine            | p-Hydroxymandelic acid     |
| Met                                 | N-Acetylmethionine         | N $\omega$ -Methylarginine | p-Hydroxyphenylacetic acid |
| Methionine sulfoxide                | N-Acetylneuraminic acid    | O-Acetylcarnitine          | Picolinic acid             |
| Methylguanidine                     | N-Acetylornithine          | O-Acetylserine             | Pimelic acid               |
| Mevalolactone                       | N-Acetylputrescine         | o-Coumaric acid            | Pipecolic acid             |
| m-Hydroxybenzoic acid               | N-Acetyltryptophan         | o-Hydroxybenzoic acid      | Piperidine                 |
| Mucic acid                          | N-Acetyl- $\beta$ -alanine | o-Hydroxyhippuric acid     | Pro                        |
| myo-Inositol 2-phosphate            | NAD <sup>+</sup>           | O-Phosphoserine            | Propionic acid             |
| N,N-Dimethylglycine                 | NADP <sup>+</sup>          | Ornithine                  | PRPP                       |
| N,N-Dimethylhistidine               | N-Carbamoylaspartic acid   | Orotic acid                | Pterin                     |
| N1,N8-Diacetylspermidine            | N-Ethylglycine             | Oxamic acid                | Putrescine                 |
| N1-Acetylspermine                   | N-Formylmethionine         | p-Aminobenzoic acid        | Pyridoxal                  |
| N1-Glutathionylspermidine disulfide | N-Glycolylneuraminic acid  | p-Anisic acid              | Pyridoxamine               |
| N2-Phenylacetylglutamine            | Nicotinamide               | Pantothenic acid           | Pyridoxine                 |
| N5-Ethylglutamine                   | Nicotine                   | Paraxanthine               | Pyruvic acid               |
| N6-Acetyllysine                     | Nicotinic acid             | p-Coumaric acid            | Quinic acid                |
| N6-Methyllysine                     | N-Methylalanine            | Pelargonic acid            | Quinolinic acid            |
| N-Acetylalanine                     | N-Methylanthranilic acid   | Perillic acid              | Riboflavin                 |
| N-Acetylasparagine                  | N-Methylglutamic acid      | Phe                        | Ribose 5-phosphate         |
| N-Acetylaspartic acid               | N-Methylnicotinamide       | Phenaceturic acid          | Ribulose 5-phosphate       |
| N-Acetylglucosamine                 | N-Methylputrescine         | Phenoxyacetic acid         | S-Adenosylmethionine       |
| N-Acetylglutamic acid               | N-Methylserotonin          | Phosphocreatine            | Sarcosine                  |
| N-Acetylglutamine                   | N-Methyltryptamine         | Phosphoenolpyruvic acid    | Sebacic acid               |

Sedoheptulose 7-phosphate

Ser

Ser-Glu

Serotonin

Shikimic acid

S-Methylcysteine

Sorbitol 6-phosphate

Spermidine

Spermine

Suberic acid

Succinic acid

Tartaric acid

Taurine

Taurocyamine

Thiamine

Thiamine phosphate

Thiaproline

Thr

Thr-Asp

Threonic acid

threo- $\beta$ -Methylaspartic acid

Thymidine

Thymine

trans-Zeatin

Trigonelline

Trimethylamine

Trimethylamine N-oxide

Trp

Tyr

Tyramine

Tyr-Arg

Tyr-Glu

Tyrosine methyl ester

UDP

UDP-glucuronic acid

UMP

Uracil

Urea

Uric acid

Uridine

Urocanic acid

UTP

Val

Valeric acid

Vanillic acid

Vanillylmandelic acid

Xanthine

Xanthosine

Xanthurenic acid

XMP

 $\beta$ -Ala $\beta$ -Ala-Lys $\beta$ -Tyr $\gamma$ -Butyrobetaine