

Abbreviations

The abbreviations for amino acids and their use in the formulation of derivatives follow in general the 1983 Recommendations of the IUB-IUPAC Joint Commission, which were reprinted as an Appendix in Volume 16 of this series. These are also published in:

Eur J. Biochem., 1984, **138**, 9–37; *Int. J. Pept. Protein Res.*, 1984, **24**, after p. 84; and *J. Biol. Chem.*, 1985, **260**, 14–42.

In 1995 the Joint Commission issued the following corrections to the above Recommendations:

Section 3AA-13.4 For Ala-Thr-Gly-Asp-Gly, read Ala-Thr-Gly-Asp-Gly

Section 3AA-13.5 The correct name is (7*E*,9*E*,11*Z*,14*Z*)-(5*S*,6*R*)-6-[(cysteinylglycyl)-*S*-yl]-5-hydroxyicososa-7,9,11,14-tetraenoic acid.

A complete listing of the single-letter code for amino acids appeared in the Abbreviations section of Volume 24 of these Reports, together with structures for the closely related BOP family of coupling reagents.

Chapter authors have been encouraged annually to include new abbreviations in their texts. With the ever increasing diversification in structures, lists and unusual abbreviations are periodically compiled, and the latest examples were published in the abbreviations section of last year's volume (Volume 26).

List of Abbreviations

The following is a list of the abbreviations for the less well-known non-proteinogenic amino acids used in the text. Some of these compounds, for example 2,4-diaminobutyric acid, have more than one abbreviated form.

Abo	2-azabicyclo[2.2.2]octane-3-carboxylic acid
Abu	α -aminobutyric acid
A ₂ bu	2,4-diaminobutyric acid
ACCA	4-aminocyclohexanecarboxylic acid
ϵ Ahx	6-aminohexanoic acid
Aib	α -aminoisobutyric acid
Aic	2-aminoinidan-2-carboxylic acid
A ₂ pr	2,3-diaminopropionic acid
Atc	2-aminotetralin-2-carboxylic acid
Ava	5-aminopentanoic acid
Aze	azetidine-2-carboxylic acid
Cha	3-cyclohexylalanine
Cpg	α -cyclopentylglycine

Cpp	1-mercaptocyclohexaneacetic acid, <i>or</i> β -mercapto- β , β -cyclopentamethylene propionic acid, <i>or</i> Pmp (<i>below</i>)
cPzACAla	<i>cis</i> -3-(4-pyrazinylcarbonylamino-cyclohexyl)alanine
Dab	2,4-diaminobutyric acid
Dap	2,3-diaminopropionic acid
Dbf	3-(2-dibenzofuranyl)alanine
Dip	3,3-diphenylalanine
Dph	α - α -diphenylglycine
Dpr	2,3-diaminopropionic acid
Gly(Ph)	phenylglycine
Har	homoarginine
Hib	α -hydroxyisobutyric acid
Hyp	<i>trans</i> -4-hydroxyproline
Iva	isovaline
Mpt	<i>trans</i> -4-mercaptoproline
1-Nal	3-(1-naphthyl)alanine
2-Nal	3-(2-naphthyl)alanine
Nap	β -(1'-naphthyl)alanine
Oic	octahydroindolecarboxylic acid
Opt	<i>O</i> -phenyltyrosine
3-Pal	3-(pyridyl)alanine
Pen	penicillamine
Phg	phenylglycine
Pip	pipecolic acid
Pmp	β , β -pentamethylene- β -mercaptopropionic acid, <i>or</i> Cpp (<i>above</i>)
Qal	3-(3-quinoly)alanine
Qua	quinoline-2-carboxamide
Sar	sarcosine
Thi	β -thienylalanine
Tic	1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid