

# New Amino Acids & Derivatives

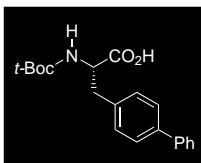
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Aldrich continues to introduce new chiral building blocks for organic synthesis. A small sampling of our recent additions is shown below. For a complete list of our new chiral building blocks, please request your free copy of the **1998-99 Sigma-Aldrich Chiral Compounds Catalog** from your local office. For the latest new chiral products visit our newly remodeled web site at [www.sial.com/aldrich/chiral/index.htm](http://www.sial.com/aldrich/chiral/index.htm).

Building block for the synthesis of endopeptidase inhibitors of therapeutic interest as antihypertensives.

De Lombaert, S. et al. *J. Med. Chem.* **1994**, 37, 498.

**46,454-6** 3-(4-Biphenyl)-*N*-(*tert*-butoxycarbonyl)-L-alanine, 97%

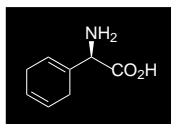


250mg; 1g

Used in the synthesis of pyrazolyl and isoxazolyl glycine derivatives.

Zvilichovsky, G.; Gurvich, V. *Tetrahedron* **1995**, 51, 5479.

**47,138-0** (*R*)-(-)-2-(2,5-Dihydrophenyl)-glycine, 98%

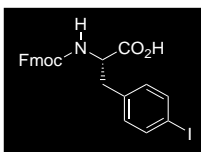


1g; 5g

Synthesis of phosphotyrosine mimetic phenylalanine derivatives.

Qabar, M.N. et al. *Tetrahedron* **1997**, 53, 11171.

**46,874-6** *N*-(9-Fluorenylmethoxycarbonyl)-3-(4-iodophenyl)-L-alanine, 97%

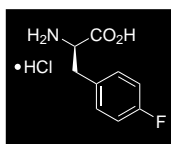


250mg; 1g

Fluorine-containing amino acids have potential pharmacological utility in drugs.

*Fluorine-containing Amino Acids, Synthesis and Properties*; Kukhar, V.P.; Soloshonok, V.A., Eds.; John Wiley & Sons Ltd.: Chichester, England, 1995.

**46,880-0** *D*-4-Fluorophenylalanine hydrochloride, 99%



500mg

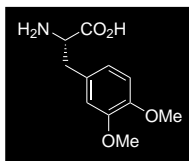
Used in the stereocontrolled preparation of chiral organic phosphonates as key intermediates in the synthesis of lignans of biological interest.

Suárez, A. et al. *Synth. Commun.* **1993**, 23, 1991.

Used in the preparation of 2-azaindolizines via 1,5-electrocyclizations.

Grigg, R. et al. *Tetrahedron* **1992**, 48, 10423.

**47,272-7** 3-(3,4-Dimethoxyphenyl)-L-alanine, 97%

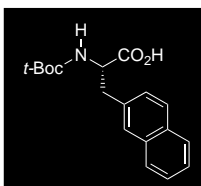


1g

Useful *N*-protected building block for combinatorial chemistry.

**46,866-5** *N*-(*tert*-Butoxycarbonyl)-3-(2-naphthyl)-L-alanine, 99%

500mg

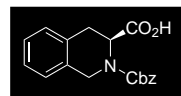


Building block for HIV protease inhibitors.

Yu, K.L. et al. *Bioorg. Med. Chem. Lett.* **1993**, 3, 535.

**46,505-4** (*S*)-(+)-2-(Benzyloxycarbonyl)-1,2,3,4-tetrahydro-3-isoquinolinecarboxylic acid, 97%

1g; 10g



Used to prepare a novel class of anti-fungal agents.

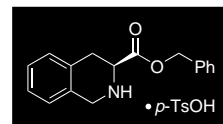
Liu, L.T. et al. *Bioorg. Med. Chem. Lett.* **1996**, 6, 1335.

The reaction of this amino ester with excess phenylmagnesium bromide yields a tertiary alcohol that is used in the preparation of a chiral oxazaborolidine catalyst.

Stingl, K. et al. *Tetrahedron:Asymmetry* **1992**, 3, 223.

**46,506-2** Benzyl (*S*)-(-)-1,2,3,4-tetrahydro-3-isoquinolinecarboxylate, *p*-toluenesulfonic acid salt, 97%

1g; 10g

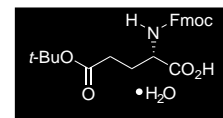


Protected building block for the introduction of glutamic acid into peptides.

Lajoie, G. et al. *Synthesis* **1990**, 571, and references cited therein.

**44,501-0** *N*-(9-Fluorenylmethoxycarbonyl)-L-glutamic acid  $\gamma$ -*tert*-butyl ester monohydrate, 98%

1g; 5g



Starting material for the enantiospecific synthesis of (*R*)-(+)-Boc-iturinic acid (*n*-C<sub>14</sub>),<sup>1</sup> the L-aspartic acid series of thrombin inhibitors,<sup>2</sup> and diketopiperazine tetrapeptides.<sup>3</sup>

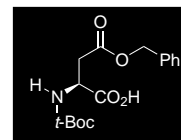
(1) Bland, J.M. *Synth. Commun.* **1995**, 25, 467.

(2) Hilpert, K. et al. *J. Med. Chem.* **1994**, 37,

3889. (3) Bergeron, R.J. et al. *J. Am. Chem. Soc.* **1994**, 116, 8479.

**44,065-5** *N*-(*tert*-Butoxycarbonyl)-L-aspartic acid 4-benzyl ester, 98%

5g; 25g

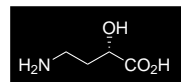


Building block for enantiopure 3-hydroxy-pyrrolidin-2-ones.

Bentley, J.M. et al. *J. Chem. Soc., Chem. Commun.* **1995**, 231.

**46,735-9** (*S*)-(-)-4-Amino-2-hydroxybutyric acid, 96%

5g; 25g



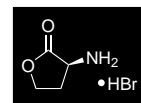
Used to prepare pseudopeptide inhibitors for Ras farnesyl-protein transferase<sup>1</sup> as well as selenomethionine.<sup>2</sup>

(1) Graham, S.L. et al. *J. Med. Chem.* **1994**, 37, 725.

(2) Koch, T.; Buchardt, O. *Synthesis* **1993**, 1065.

**47,142-9** (*S*)-(-)- $\alpha$ -Amino- $\gamma$ -butyrolactone hydrobromide, 99%

1g; 5g



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