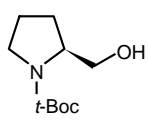
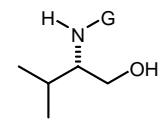
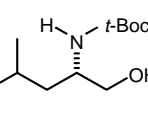
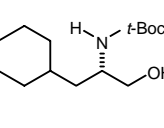
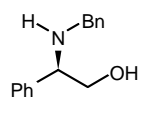
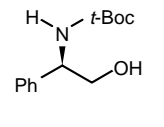
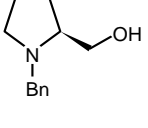
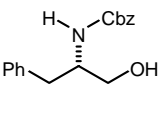
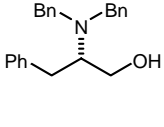
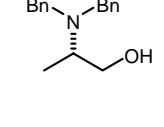


N-Protected Amino Alcohols

N-Protected amino alcohols are versatile building blocks in organic synthesis. A sampling of Aldrich's listings from this important class of compounds is shown below along with some of their applications. For our complete selection of amino alcohols, see the 1997 *Aldrich Chiral Compounds* brochure. You can request your free copy by calling our Technical Services Department at 800-231-8327 or visiting the Aldrich web site at www.aldrich.sial.com.

	<ul style="list-style-type: none"> • Building block for novel nicotinic acetylcholine receptor ligands with cognition-enhancing properties.¹ • Used in the synthesis of chiral β-amino sulfides and β-amino thiols.² <p>(1) Lin, N.-H. et al. <i>J. Med. Chem.</i> 1997, <i>40</i>, 385. Elliott, R.L. et al. <i>Bioorg. Med. Chem. Lett.</i> 1996, <i>6</i>, 2283. Abreo, M.A. et al. <i>J. Med. Chem.</i> 1996, <i>39</i>, 817. (2) Cran, G.A. et al. <i>Tetrahedron: Asymmetry</i> 1995, <i>6</i>, 1553.</p> <p>44,632-7 (S)-(-)-1-(<i>tert</i>-Butoxycarbonyl)-2-pyrrolidinemethanol, 98% NEW! 1g; 5g</p>	 <p>G = <i>t</i>-Boc, Fmoc</p>	<ul style="list-style-type: none"> • Starting materials for the synthesis of enantiopure <i>homo</i>-β-amino acids.¹ • Used in the efficient synthesis of enantiopure tetrahydroisoquinolines.² • Intermediates in the one-pot conversion of amino acid carbamates to <i>N</i>-derivatized 2-oxazolidinones.³ <p>(1) Caputo, R. et al. <i>Tetrahedron</i> 1995, <i>51</i>, 12337. Idem <i>Tetrahedron Lett.</i> 1995, <i>36</i>, 167. (2) Tietze, L.F.; Burkhardt, O. <i>Synthesis</i> 1994, 1331. (3) Huwe, C.M.; Blechert, S. <i>Tetrahedron Lett.</i> 1994, <i>35</i>, 9533.</p> <p>44,441-3 <i>N</i>-(<i>tert</i>-Butoxycarbonyl)-L-valinol, NEW! 98% 1g; 5g 44,567-3 <i>N</i>-(9-Fluorenylmethoxycarbonyl)-L-valinol, NEW! 97% 1g; 5g</p>
	<ul style="list-style-type: none"> • Precursor to enantiomerically pure α-methyl amines.¹ • Starting material for the synthesis of enantiopure <i>homo</i>-β-amino acids² and <i>N</i>-protected α-amino aldehydes.³ • Used in the total synthesis of the gastroprotective amicumacin C.⁴ <p>(1) Donner, B.G. <i>Tetrahedron Lett.</i> 1995, <i>36</i>, 1223. (2) Caputo, R. et al. <i>Tetrahedron</i> 1995, <i>51</i>, 12337. Idem <i>Tetrahedron Lett.</i> 1995, <i>36</i>, 167. (3) Soucek, M.; Urban, J. <i>Collect. Czech. Chem. Commun.</i> 1995, <i>60</i>, 693. (4) Ward, R.A.; Procter, G. <i>Tetrahedron</i> 1995, <i>51</i>, 12301.</p> <p>44,119-8 <i>N</i>-(<i>tert</i>-Butoxycarbonyl)-L-leucinol, NEW! 98% 1g; 5g</p>		<ul style="list-style-type: none"> • Precursor to (S)-<i>N</i>-Boc-cyclohexylalaninal.¹ • This precursor was oxidized to the corresponding α-amino aldehyde in good yield and high optical purity.² <p>(1) Krysan, D.J. et al. <i>Org. Prep. Proced. Int.</i> 1993, <i>25</i>, 437. (2) Leanna, M.R. et al. <i>Tetrahedron Lett.</i> 1992, <i>33</i>, 5029.</p> <p>42,169-3 (S)-(-)-2-(<i>tert</i>-Butoxycarbonylamino)-3-cyclohexyl-1-propanol, 90% 1g; 5g</p>
	<ul style="list-style-type: none"> • Used for the asymmetric synthesis of α-amino phosphonic acids.¹ • Starting material for a practical route to optically pure β-substituted amines.² <p>(1) Maury, C. et al. <i>J. Org. Chem.</i> 1996, <i>61</i>, 3687. (2) Micouin, L. et al. <i>Tetrahedron Lett.</i> 1994, <i>35</i>, 7223.</p> <p>45,776-0 (R)-(-)-<i>N</i>-Benzyl-2-phenylglycinol, NEW! 98% 1g; 5g</p>		<ul style="list-style-type: none"> • Used for the synthesis of homochiral <i>N</i>-protected β-amino sulfoxides¹ and α-amino acids.² • Chiral synthon which undergoes heterocyclizations.³ Precursor to chiral oxazolidinones.⁴ <p>(1) Siedlecka, R.; Skarzewski, J. <i>Synlett</i> 1996, 757. (2) Cox, G.G.; Harwood, L.M. <i>Tetrahedron: Asymmetry</i> 1994, <i>5</i>, 1669. (3) Agami, C. et al. <i>Bull. Soc. Chim. Fr.</i> 1995, 132, 808. (4) Idem <i>Tetrahedron Lett.</i> 1993, <i>34</i>, 4509.</p> <p>42,981-3 (R)-(-)-<i>N</i>-(<i>tert</i>-Butoxycarbonyl)-2-phenylglycinol, NEW! 99% (99%ee) 250mg; 1g 42,982-1 (S)-(+)-<i>N</i>-(<i>tert</i>-Butoxycarbonyl)-2-phenylglycinol, NEW! 99% (99%ee) 250mg; 1g</p>
	<ul style="list-style-type: none"> • Precursor in the synthesis of proline-derived homochiral amine oxides.¹ • Starting material for enantiomerically pure 3-hydroxypiperidine, a structural feature present in many natural products.² <p>(1) O'Neil, I.A. et al. <i>Synlett</i> 1995, 617. (2) Cossy, J. et al. <i>Tetrahedron Lett.</i> 1995, <i>36</i>, 549.</p> <p>30,211-2 (S)-(-)-1-Benzyl-2-pyrrolidine-methanol, 99% 5g; 25g</p>	  	<ul style="list-style-type: none"> • Building blocks for the synthesis of HIV protease inhibitors. <p>Scholz, D. et al. <i>J. Med. Chem.</i> 1994, <i>37</i>, 3079. Liu, C. et al. <i>Org. Process. Res. Dev.</i> 1997, <i>1</i>, 45. Beaulieu, P.L.; Wernic, D. <i>J. Org. Chem.</i> 1996, <i>61</i>, 3635. Lam, P.Y.S. et al. <i>J. Med. Chem.</i> 1996, <i>39</i>, 3514. Hodge, C.N. et al. <i>Chem. Biol.</i> 1996, <i>3</i>, 301. Pierce, M.E. et al. <i>J. Org. Chem.</i> 1996, <i>61</i>, 444.</p> <p>42,172-3 (S)-(-)-2-(Carbobenzyloxyamino)-3-phenyl-1-propanol, 97% 1g; 5g 45,993-3 (R)-(+)-2-(Carbobenzyloxyamino)-3-phenyl-1-propanol, 97% NEW! 1g; 5g 42,173-1 (S)-(+)-2-(Dibenzylamino)-3-phenyl-1-propanol, 99% 1g; 5g 34,960-7 (S)-(+)-2-(Dibenzylamino)-1-propanol, 99% 1g; 5g</p>



ALDRICH[®] chemists helping chemists in research & industry

P.O. Box 355, Milwaukee, WI 53201 USA Telephone 414-273-3850 • 800-558-9160 Fax 414-273-4979 • 800-962-9591 Web Site www.sial.com/aldrich

Aldrich is a member of the Sigma-Aldrich family.