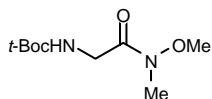
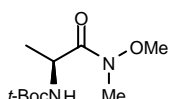


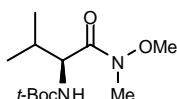
α -Amino Weinreb Amides



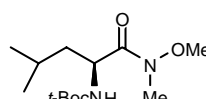
46,512-7



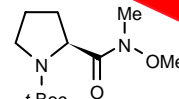
45,845-7



45,846-5



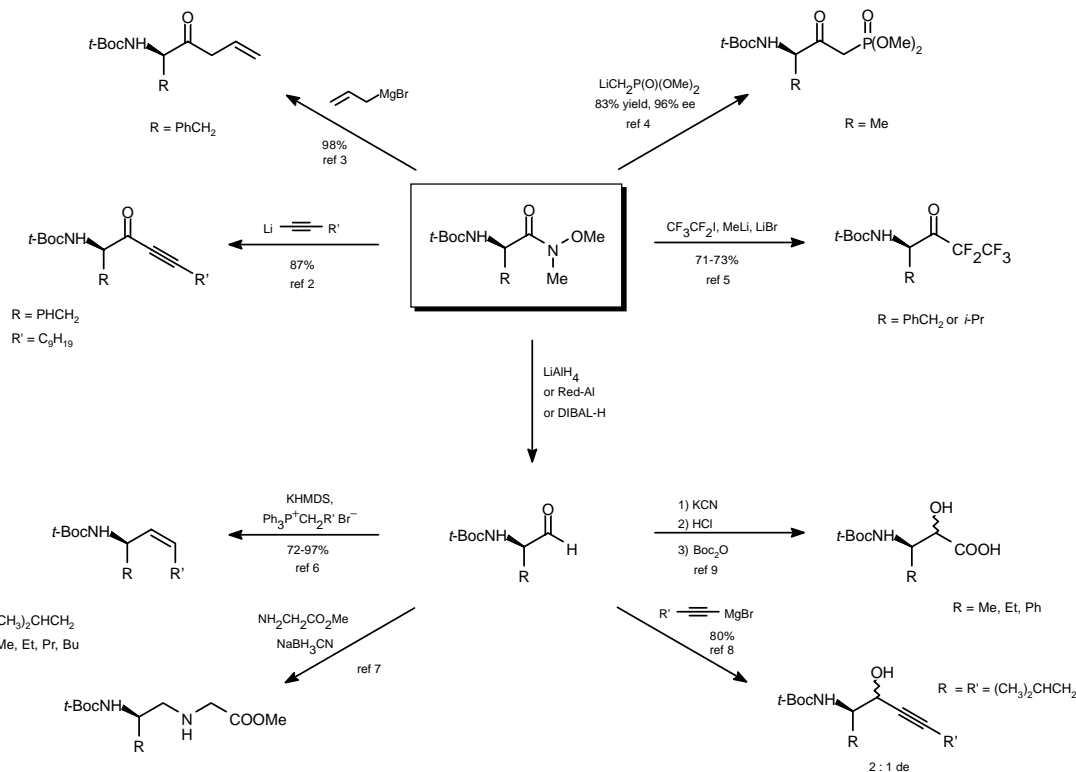
42,383-1



45,885-6

N-Methoxy-*N'*-methylamides of α -amino acids are useful starting materials for the synthesis of chiral molecules.¹ Addition of nucleophiles gives high yields of ketones; overaddition produces little, if any, alcohols. Reduction of the amides with LiAlH₄, DIBAL-H, or Red-Al[®] produces α -amino aldehydes. Examples in which researchers have utilized these important compounds are shown below.

Aldrich now offers several optically pure, *t*-Boc protected α -amino Weinreb amides and plans to expand this line in the near future. To suggest new Weinreb amides or inquire about other *N*-methoxy-*N'*-methylamides of α -amino acids, please call our Technical Services Department at 800-231-8327.



46,512-7 <i>N</i> -(<i>tert</i> -Butoxycarbonyl)glycine <i>N</i> -methoxy- <i>N'</i> -methylamide, 98%	1g; 5g
45,845-7 <i>N</i> -(<i>tert</i> -Butoxycarbonyl)-L-alanine <i>N</i> -methoxy- <i>N'</i> -methylamide, 98%	1g; 5g
45,846-5 <i>N</i> -(<i>tert</i> -Butoxycarbonyl)-L-valine <i>N</i> -methoxy- <i>N'</i> -methylamide, 97%	1g; 5g
42,383-1 <i>N</i> -(<i>tert</i> -Butoxycarbonyl)-L-leucine <i>N</i> -methoxy- <i>N'</i> -methylamide, 98%	1g; 5g
45,885-6 <i>N</i> -(<i>tert</i> -Butoxycarbonyl)-L-proline <i>N</i> -methoxy- <i>N'</i> -methylamide, 98%	1g; 5g

References: (1) Nahm, S.; Weinreb, S.M. *Tetrahedron Lett.* **1981**, 22, 3815. For a review, see: Sibi, M.P. *Org. Prep. Proc. Intl.* **1993**, 25, 15. (2) Overhand, M.; Hecht, S.M. *J. Org. Chem.* **1994**, 59, 4721. (3) Kim, B.M. et al. *Tetrahedron Lett.* **1994**, 35, 5153. (4) Lucet, D. et al. *Tetrahedron: Asymmetry* **1996**, 7, 985. (5) Angelastro, M.R. et al. *Tetrahedron Lett.* **1992**, 33, 3265. (6) Saari, W.S.; Fischer, T.E. *Synthesis* **1990**, 453. (7) Kosynkina, L. et al. *Tetrahedron Lett.* **1994**, 35, 5173. (8) Bohnstedt, A.C. et al. *Tetrahedron Lett.* **1993**, 34, 5217. (9) Harbeson, S.L. et al. *J. Med. Chem.* **1994**, 37, 2918.

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