

Applications

Solid Phase Resins for SPOS

The increased attention devoted to Solid Phase Organic Synthesis (SPOS) has resulted in the literature reports of new resins and linkers to effect the transition from solution- to solid-phase synthesis. Aldrich now makes many of these resins and reagents for the Combinatorial Chemist. Listed below are some of our most recent additions. For additional information on these or other resins from Aldrich, please email our Technical Services department: aldrich@sial.com, or visit the Combinatorial Chemistry Section of our Web site at www.sigma-aldrich.com/combichem.

NEW!

Product	Structure	Applications
49,823-8 Carbonylimidazole, polymer-bound, 100-200 mesh 1g; 5g		Carbamate linker employed in the synthesis of esters, ¹ guanidines, ² and thiazolidinones ³ on solid phase.
49,477-1 CombiGel XE-305, macroreticular polystyrene-DVB, 50-100 mesh 25g; 100g		Our replacement for Amberlite® XE-305.
47,368-5 Isocyanate, polymer-bound, 200-400 mesh, 1.5-2.0 mmol/g 1g; 5g		Polymer-bound scavenger reagent used to sequester amines. ⁴
49,479-8 Wang trichloroacetimidate resin, 200-400 mesh, 0.75-1.25 mmol/g 1g; 10g		Polymer-bound benzylating agent used in the formation of benzyl ethers ⁵ and esters ⁶ on solid phase.
47,208-5 4-Benzyloxybenzaldehyde, polymer-bound, 200-400 mesh, 2.5-3.0 mmol/g 5g; 25g		Nucleophile scavenging resin. ^{4d}
47,541-6 Glycerol, polymer-bound, 200-400 mesh, 1.0-2.0 mmol/g 1g; 5g		Polymer-supported diol for binding aldehydes and ketones.

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References: (1) Hauske, J.R.; Dorff, P. *Tetrahedron Lett.* **1995**, 36, 1589. (2) Josey, J.A. et al. *ibid.* **1998**, 39, 5899. (3) Munson, M.C. et al. *ibid.* **1998**, 39, 7223. (4) (a) Booth, R.J.; Hodges, J.C. *J. Am. Chem. Soc.* **1997**, 119, 4882. (b) Kaldor, S.W. et al. *Tetrahedron Lett.* **1996**, 37, 7193. (c) *Idem Biorg. Med. Chem. Lett.* **1996**, 6, 3041. (d) Creswell, M.W. et al. *Tetrahedron* **1998**, 54, 3983. (5) (a) Hanessian, S.; Fang, X. *Tetrahedron Lett.* **1998**, 39, 733. (b) *Idem ibid.* **1998**, 39, 737. (6) Phoon, C.W. et al. *ibid.* **1998**, 39, 7959.