

PL-Thiourea Resin

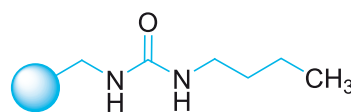
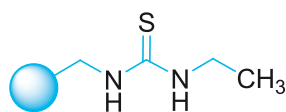
Solution Phase Synthesis

MP

PL-Urea Resin

Solution Phase Synthesis

MP



Description: Polymer supported thiourea

Description: Polymer supported urea

Application: Metal Scavenger

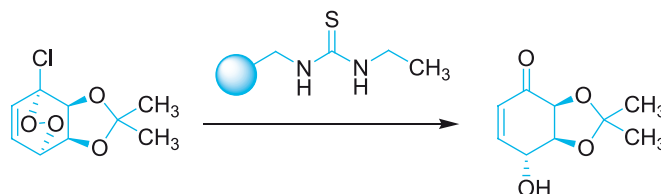
See Also: PL-BnSH, PL-DEAM, PL-DETA, PL-EDA, PL-TBD, PL-TMT, PL-TPP, PL-SO₃H

PL-Urea and PL-Thiourea are macroporous (MP) products designed to provide strong interactions with a variety of heavy metal species. They may therefore be used to remove a number of organometallic catalysts from solution.

Catalysts containing ruthenium (e.g. Grubbs and Grubbs-Hoveyda), rhodium (e.g. Wilkinson's) and numerous other metals (copper, tin, platinum, palladium etc.) can prove difficult to remove from pharmaceutical lead compounds. This may cause subsequent problems with cell-based assays unless levels can be reduced below 5ppm.

By providing a macroporous resin containing a strong chelating functional site, residual metal content can be reduced significantly either in batchwise or flow through modes.

Other uses for these compounds have also been reported, including hydrogenolysis of endoperoxides. There also remains the possibility of using these polymer supported reagents as co-catalysts in some metal mediated reactions such as Pauson-Khand.



References

- (1) Zuo, G.; Muhammed, M. *React. Polym.* **1995**, *24*, 165-181.
- (2) Warmus, J. S.; Ryder, T. R.; Hodges, J. C.; Kennedy, R. M.; Brady, K. D. *Bioorg. Med. Chem. Lett.* **1998**, *8*, 2309-2314.
- (3) Trochimczuk, A. W.; Kolarz, B. N. *Eur. Polym. J.* **2000**, *36*, 2359-2363.
- (4) Bicak, N.; Sherrington, D. C.; Sungur, S.; Tan, N. *React. Funct. Polym.* **2003**, *54*, 141-147.
- (5) Spivey, A. C.; Mañas, C. G.; Mann, I. *Chem. Commun.* **2005**, 4426-4428.
- (6) Vickerstaffe, E.; Warrington, B. H.; Ladlow, M. J. *Comb. Chem.* **2005**, *7*, 385-397.
- (7) Meusel, M.; Gutschow, M. *Tetrahedron Lett.* **2005**, *46*, 2231-2233.

Ordering Information

PL-Thiourea MP Resin

	Part No
>2.0mmol/g 100Å 150-300µm	PL350B-1689, 5g
	PL350B-3689, 25g
	PL350B-4689, 100g
	PL350B-6689, 1kg

PL-Urea MP Resin

	Part No
>2.0mmol/g 100Å 150-300µm	PL350A-1689, 5g
	PL350A-3689, 25g
	PL350A-4689, 100g
	PL350A-6689, 1kg

Additional Information

Varian Polymer Laboratories manufactures in multi kg quantities. Please enquire for details.