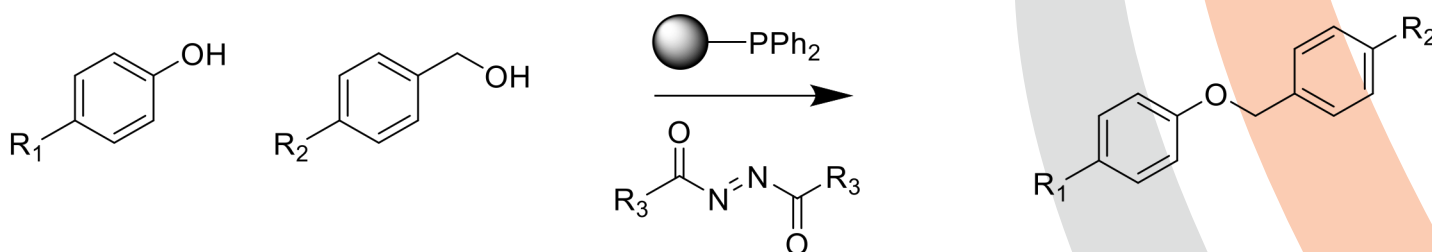


Benzylidiphenylphosphine (BDPP)

Benzylidiphenylphosphine Resin, PS, is a lightly cross-linked gel-type polystyrene resin with a diphenylphosphine end-group. It is a polymer-bound equivalent of triphenyl and benzylidiphenyl phosphine and is highly capable of the standard transformations commonly associated with its solution phase counterparts including halogenation and Mitsunobu reactions.

The generation of triphenylphosphine oxide during these transformations presents significant challenges for purification on silica gel or RP-HPLC with streaking and co-elution being commonplace. The advantage of utilizing a supported version of these reagents is that once the oxide is formed, it is simply removed via filtration. In addition, PS-BDPP is an efficient ligand for palladium catalyzed reactions, as well as palladium scavenging. It is equally proficient as a reducing agent and an extremely capable partner in both azide reductions and Staudinger reactions.

General Reaction



References

Humphries, P. S. *Beilstein J. Org. Chem.*, **2006**, 2, No. 21
Thomas, G. L. *Tetrahedron* **2005**, 61, 12153-12159
Lizarzaburu, M. E. *Tetrahedron Lett.*, **2003**, 44, 4873-4876
Kwok, M. *J. Org. Chem.*, **2003**, 68, 9831-9834
Cossy, J. *Synlett*, **2001**, 5, 629-33

Solvent Compatibility

THF
DMF
NMP
DCM

Ordering Information

PS-Benzylidiphenylphosphine

Loading: 1.4 - 1.6 mmol/g	10g	SPPS 40-10
	25g	SPPS 40-25
Bead size: 100-200 mesh	100g	SPPS 40-100
	1kg	SPPS 40-1kg

For additional information contact info@suprasciences.com or visit www.suprasciences.com