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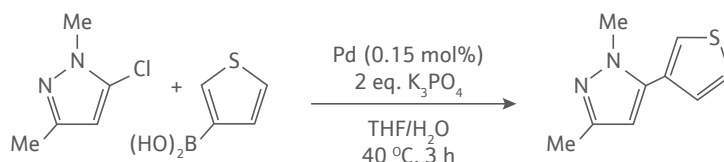
Novel DyadPalladate™ pre-catalysts, designed for maximising value

Our expertise in homogeneous catalysis supports the development of efficient and sustainable solutions to improve your catalytic processes. As a cost-effective alternative to *in situ* and advanced cross-coupling systems, the DyadPalladate™ pre-catalysts exhibit comparable performance, simplify product purification, and offer a greener alternative to traditional cross-coupling catalysts. These novel catalysts are available as a kit or for individual sale in up to multi-kilogram quantities.

DyadPalladate™ pre-catalyst kit – HMK-005 (1 gram each)

Catalog ID	Description/CAS#		Catalog ID	Description/CAS#	
Pd-192	[HXPhos] ₂ [Pd ₂ Cl ₆] CAS# 2548904-04-5		Pd-197	[HtBuBrettPhos] ₂ [Pd ₂ Cl ₆] CAS# 2548904-09-0	
Pd-193	[HRuPhos] ₂ [Pd ₂ Cl ₆] CAS# 2548904-00-1		Pd-201	[HPCy ₃] ₂ [Pd ₂ Cl ₆] CAS# 2548904-13-6	
Pd-194	[HSPhos] ₂ [Pd ₂ Cl ₆] CAS# 2548904-02-3		Pd-202	[HP(tBu) ₃] ₂ [Pd ₂ Cl ₆] CAS# 2548904-14-7	
Pd-195	[HBrettPhos] ₂ [Pd ₂ Cl ₆] CAS# 2548904-08-9		Pd-203	[HP(nBu)(Ad) ₂] ₂ [Pd ₂ Cl ₆] CAS# 2548904-17-0	
Pd-196	[HtBuXPhos] ₂ [Pd ₂ Cl ₆] CAS# 2548904-05-6				

Suzuki model reaction



Pre-catalyst	Catalog ID	Conversion (%)	Yield (%)
(XPhos)Pd(crotlyl)Cl	Pd-170	>99	99
XPhos G3 palladacycle	BPC-301	>99	98
[HXPhos] ₂ [Pd ₂ Cl ₆]	Pd-192	>99	97
Pd(OAc) ₂ + XPhos	Pd-111 + XPhos	94	90
Pd ₂ dba ₃ + XPhos	Pd-94 + XPhos	<1	<1

Initial studies indicate similar performance to other advanced pre-catalysts in a variety of cross-coupling reactions, including Suzuki couplings, Heck reactions, and Buchwald-Hartwig aminations.