Electronic Supporting Information For:

Developing Backbone-Modified Mor-DalPhos Ligand Variants for use in Palladium-Catalyzed C-N and C-C Cross-coupling

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Information regarding deposited CIF data:

CCDC 1582659-1582666

Summary of Data CCDC 1582659

Compound Name:

Formula: C₃₀ H₄₂ N₁ P₁ S₁

Unit Cell Parameters: a 12.205(2) b 11.509(2) c 18.079(4) P21/n

Summary of Data CCDC 1582660

Compound Name:

Formula: C₃₀ H₄₁ F₁ N₁ O₁ P₁

Unit Cell Parameters: a 7.9191(2) b 15.0686(4) c 21.0847(6) P212121

Summary of Data CCDC 1582661

Compound Name:

Formula: C₂₉ H₄₁ N₂ O₁ P₁

Unit Cell Parameters: a 7.9957(4) b 14.9383(7) c 20.8422(10) P212121

Summary of Data CCDC 1582662

Compound Name:

Formula: C₃₂ H₄₆ N₁ O₃ P₁

Unit Cell Parameters: a 10.4270(5) b 11.0705(6) c 12.8635(7) P-1

Summary of Data CCDC 1582663

Compound Name:

Formula: C₃₉ H₅₁ N₁ P₁ Pd₁ S₁ 1+, Cl₁ H₂ Cl₂, Cl₁ 1-

Unit Cell Parameters: a 18.6330(8) b 10.4416(4) c 19.3804(8) P21/n

Summary of Data CCDC 1582664

Compound Name:

Formula: C₃₉ H₅₀ Cl₁ F₁ N₁ O₁ P₁ Pd₁

Unit Cell Parameters: a 10.3503(4) b 18.5899(8) c 17.4546(7) P21/n

Summary of Data CCDC 1582665

Compound Name:

Formula: C₄₀ H₅₃ N₁ O₁ P₁ Pd₁ 1+, Cl₁ 1-

Unit Cell Parameters: a 10.0961(4) b 12.3233(5) c 18.9808(8) P-1

Summary of Data CCDC 1582666

Compound Name:

Formula: C₂₉ H₄₁ N₂ O₁ P₁

Unit Cell Parameters: a 9.9701(5) b 16.9174(8) c 15.3331(7) P21/c