

Supporting Information

**Synthesis of Iminoisoindolinones via a Cascade of Three-Component
Ugi Reaction, Palladium Catalyzed Isocyanide Insertion,
Hydroxylation and an Unexpected Rearrangement Reaction**

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Content

1. Crystal data and structure refinement for **6q**.....S2
2. Copies of ^1H and ^{13}C NMR spectrum of compounds **4** and **6**.....S3-46

1. Crystal data and structure refinement for 6q

Crystal data and structure refinement for 6q.

Identification code	6q	
Empirical formula	C ₂₃ H ₂₈ ClN ₃ O ₂	
Formula weight	413.93	
Temperature	297(2) K	
Wavelength	0.71073 Å	
Crystal system	Monoclinic	
Space group	Cc	
Unit cell dimensions	a = 27.492(6) Å	α = 90°.
	b = 10.710(2) Å	β = 131.125(6)°.
	c = 20.869(5) Å	γ = 90°.
Volume	4628.8(18) Å ³	
Z	8	
Density (calculated)	1.188 Mg/m ³	
Absorption coefficient	0.187 mm ⁻¹	
F(000)	1760	
Crystal size	0.200 x 0.200 x 0.100 mm ³	
Theta range for data collection	1.967 to 26.288°.	
Index ranges	-34 ≤ h ≤ 34, -13 ≤ k ≤ 13, -25 ≤ l ≤ 25	
Reflections collected	17217	
Independent reflections	8235 [R(int) = 0.0490]	
Completeness to theta = 25.242°	100.0 %	
Absorption correction	None	
Refinement method	Full-matrix least-squares on F ²	
Data / restraints / parameters	8235 / 2 / 537	
Goodness-of-fit on F ²	0.979	
Final R indices [I > 2σ(I)]	R1 = 0.0445, wR2 = 0.1150	
R indices (all data)	R1 = 0.0605, wR2 = 0.1269	
Absolute structure parameter	0.05(4)	
Extinction coefficient	n/a	
Largest diff. peak and hole	0.512 and -0.196 e.Å ⁻³	

2. Copies of ^1H and ^{13}C NMR spectrum of compounds 4 and 6























































































