













Imp #	Compound [formula, mono-isotopic mass]	Structure	origin
1	5-hydroxy-7-chloro-quinoline [C ₉ H ₆ ClNO, MW 179.0208]		Impurities in raw materials
2	4-hydroxy-7-chloro-quinoline [C ₉ H ₆ ClNO, MW 179.0207]		Impurities in raw materials
3	(7-chloro-quinoline-4-yl) piperazine [C ₁₃ H ₁₄ ClN ₃ , MW 247.0954]		Synthesis
4	4-amino-7-chloro-quinoline [C ₉ H ₇ ClN ₂ , MW 178.0369]		Impurities in raw materials
5	1-hydroxy-3-(7-chloro-4-quinolin-4-piperazinyl) propane [C ₁₆ H ₂₀ ClN ₃ O, MW 305.1378]		Synthesis
6	piperaquine oxide [C ₂₉ H ₃₂ Cl ₂ N ₆ O, MW 550.2094]		Oxidative stress Degradation
7	piperaquine oxide [C ₂₉ H ₃₄ Cl ₂ N ₆ O ₃ , MW 584.2152]		Oxidative stress Alkaline stress Degradation
8	piperaquine oxide [C ₂₉ H ₃₂ Cl ₂ N ₆ O, MW 550.2094]		Oxidative stress Degradation
9	1-(1-(4-quinolyl)-4-piperazinyl)-3-(1-(7-chloro-4-quinolyl)-4-piperazinyl) propane [C ₂₉ H ₃₃ ClN ₆ , MW 500.2536]		Oxidative stress Degradation
10	piperaquine oxide [C ₂₉ H ₃₂ Cl ₂ N ₆ O, MW 550.2094]		Oxidative stress Degradation
11	piperaquine isomer [C ₂₉ H ₃₂ Cl ₂ N ₆ , MW 534.2146]		Synthesis
12	4-bis-(4,7-dichloroquinoline) piperazine [C ₂₂ H ₁₈ Cl ₂ N ₄ , MW 408.0987]		Synthesis