5-chloro-6-oxo-6*H*-xantheno[4,3-*d*]thiazole-2carbonitrile

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Scheme S1: Structural Discrimination of compounds 3 and 4



Figure S1. ¹H NMR spectrum of compound 4 in CDCl₃.



Figure S2. HMBC spectrum of compound 4



Figure S3. HMQC spectrum of compound 4



Figure S4. ¹H NMR spectrum of compound 8 in DMSO-d₆.



Figure S5. ¹H NMR spectrum of compound 9 in DMSO-d₆.



Figure S6. ¹H NMR spectrum of compound 10 in DMSO-*d*₆.



Figure S7. ¹³C NMR spectrum of compound 8 in DMSO- d_6 .



Figure S8. ¹³C NMR spectrum of compound 9 in DMSO- d_6 .



Figure S9. ¹³C NMR spectrum of compound 10 in DMSO-*d*₆.



Figure S10: HMBC spectrum of compound 10





Figure S12: COSY spectrum of compound 10