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Ring formation and ring opening reactions of a dihydrothiadiazine cycle fused to 1,2,4-triazole

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*Spectral characteristics for compounds **3**–**5**.*

3: ^{1}H NMR ([$^{2}H_6$]DMSO) d: 3.74, 3.79 (2s, 3H, OMe), 4.35, 4.86 (2d, 1H, CH_2, *J* 16.1 Hz), 6.77, 7.14 (2s, 1H, H_{Ar}), 7.4 (m, 3H, Ph), 7.52 (d, 2H, Ph, *J* 6.9 Hz), 7.66, 8.12 (2d, 2H, H_{Ar}, *J* 8.6 Hz), 14.13 (s, 1H, $NH_{triazole}$). MS, *m*/*z* (%): 492 (1), 477 (5), 445 (5), 317 (67), 301 (40), 273 (28), 192 (43), 177 (100), 164 (40), 139 (90). Found (%): C, 55.81; H, 3.74; N, 14.27. Calc. for $C_{24}H_{20}ClN_5O_4S$ (%): C, 56.52; H, 3.95; N, 13.73.

4: ^{1}H NMR ($CDCl_3$) d: 3.96, 3.97 (2s, 3H, OMe), 4.40 (s, 4H, CH_2, SCH_2), 6.79, 7.28 (2s, 1H, H_{Ar}), 7.31–7.45 (m, 5H, Ph), 7.78 (m, 4H, H_{Ar}), 8.10 (m, 4H, H_{Ar}). MS, *m*/*z* (%): 586 (0.5), 444 (1), 313 (2), 274 (2), 196 (7), 177 (5), 164 (13), 151 (10), 136 (44), 103 (100). Found (%): C, 57.64; H, 4.13; N, 13.21. Calc. for $C_{31}H_{25}ClN_6O_6S$ (%): C, 57.72; H. 3.91; N, 13.03.

5: ^{1}H NMR ($CDCl_3$) d: 3.95 (s, 6H, OMe), 4.63 (s, 1H, CH_2), 6.70 (s, 1H, H_{Ar}), 7.47 (d, 2H, 4-ClC_6H_4, *J* 8.5 Hz), 7.77 (s, 1H, H_{Ar}), 7.97 (d, 2H, 4-ClC_6H_4, *J* 8.5 Hz). MS, *m*/*z* (%): 335 $[M]^+$ (5), 289 (14), 248 (1), 180 (15), 164 (3), 139 (100), 111 (28), 92 (5), 75 (12). Found (%): C, 57.37; H, 4.42; N, 4.23. Calc. for $C_{16}H_{14}ClNO_5$ (%): C, 57.24; H, 4.20; N, 4.17.