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Supporting Information

Highly Potent Fluorescence-Tagged Non-Imidazole Histamine H_3 Receptor Ligands

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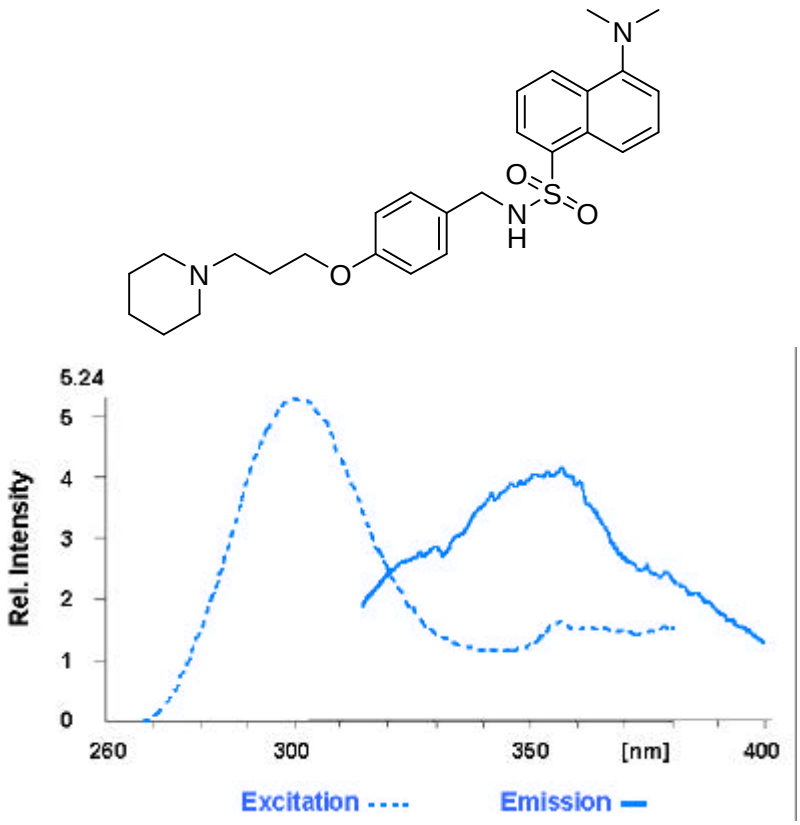

Figure 1. Excitation and emission spectra of the prominent dansyl substituted compound **8a**.

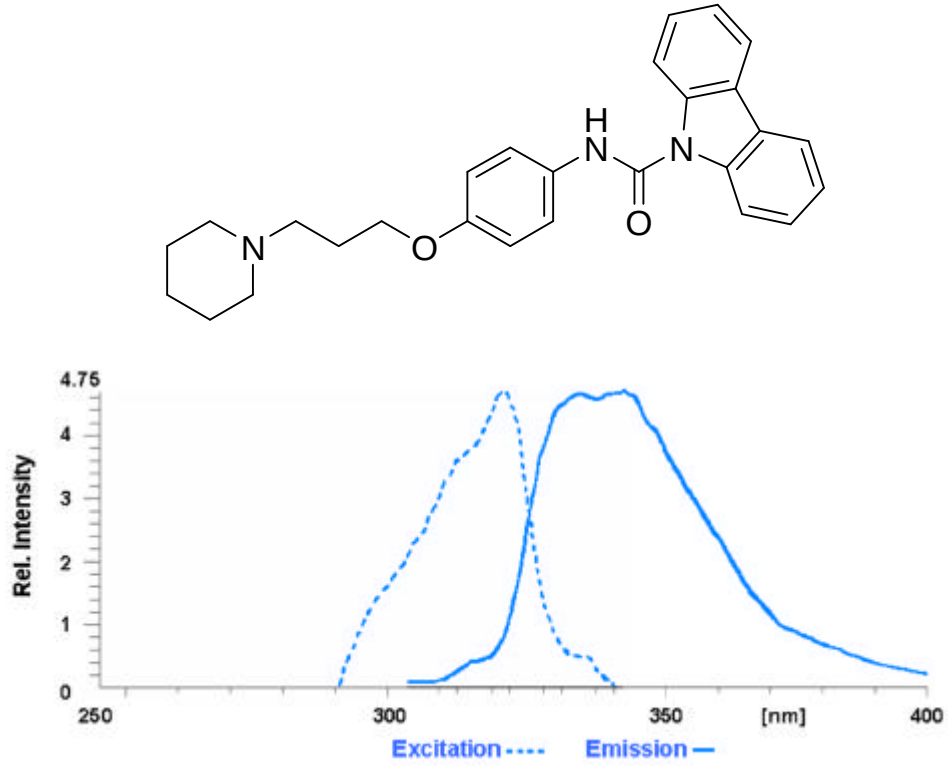

Figure 2. Excitation and emission spectra of the prominent carbazol substituted compound **7b**.

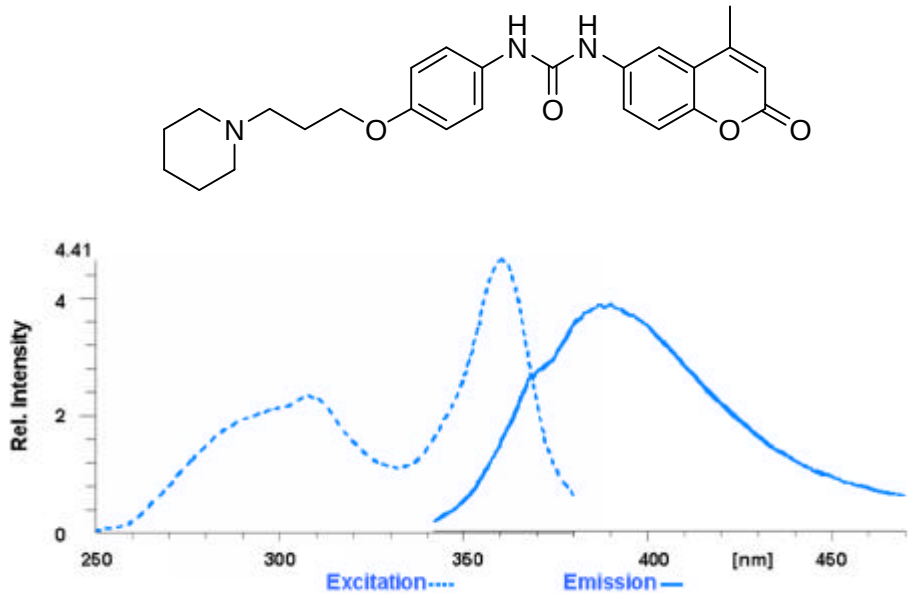

Figure 3. Excitation and emission spectra of the prominent coumarin substituted compound **7c**.

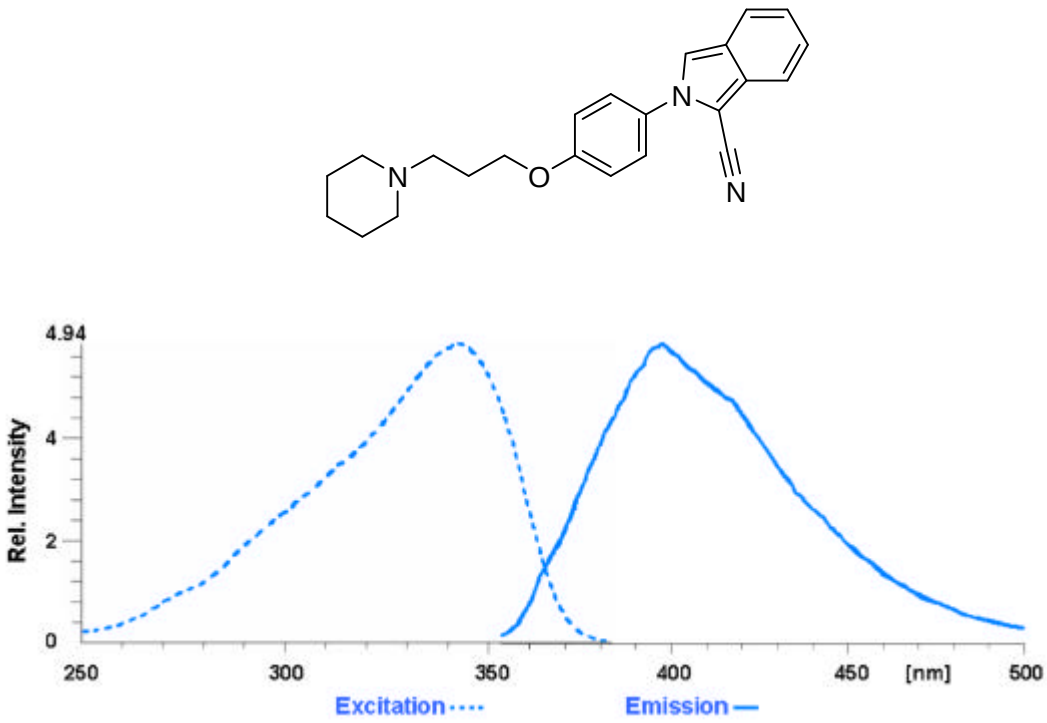

Figure 4. Excitation and emission spectra of the prominent 2-cyanoisoindole substituted compound **7d**.

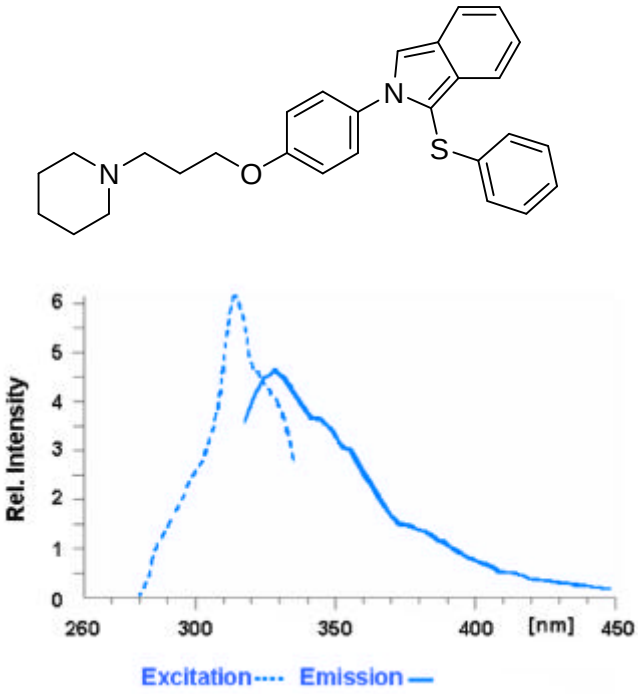

Figure 5. Excitation and emission spectra of the prominent 2-thiobenzenisoindole substituted compound **7e**.

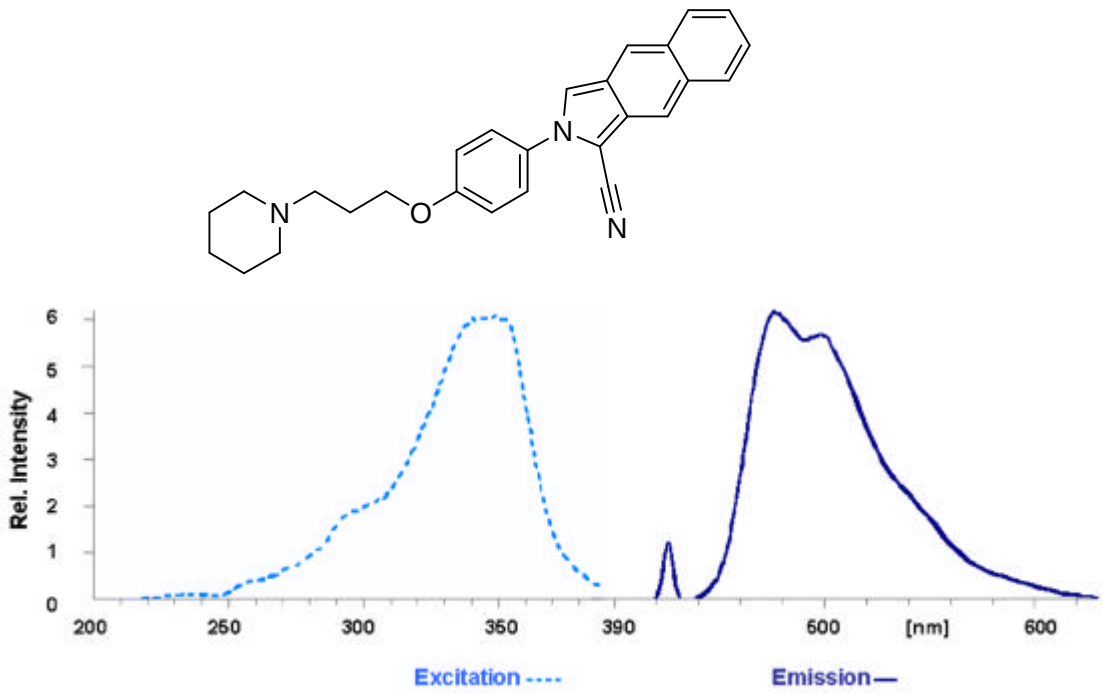

Figure 6. Excitation and emission spectra of the prominent 2-cyanobenzo[f]isoindole substituted compound **7f**.

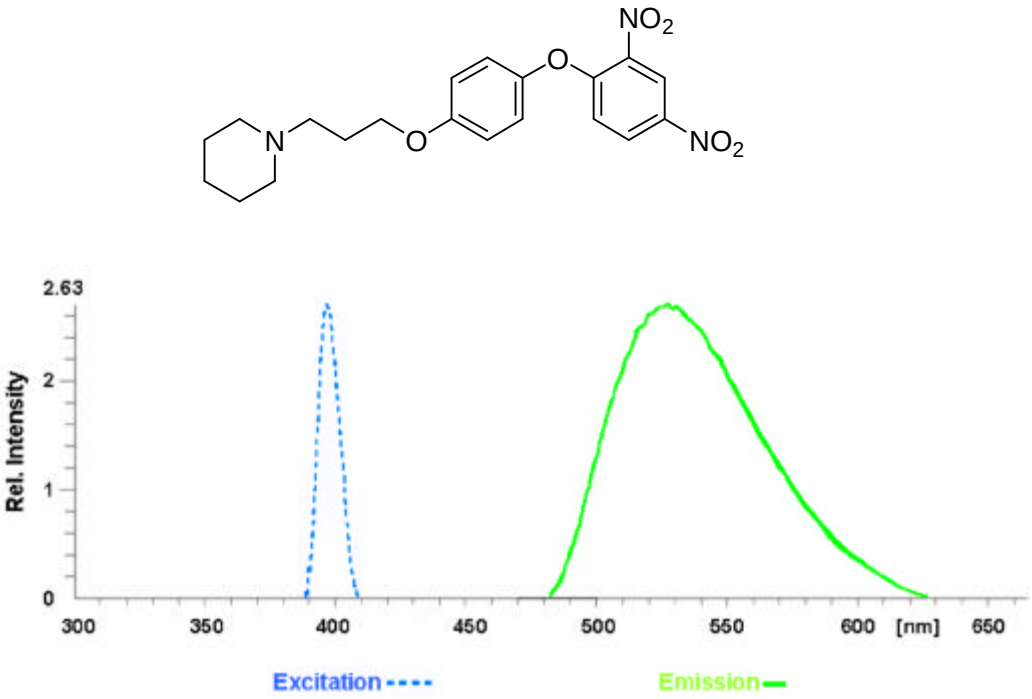

Figure 7. Excitation and emission spectra of the prominent 2,4-dinitrobenzen substituted compound **4g**.

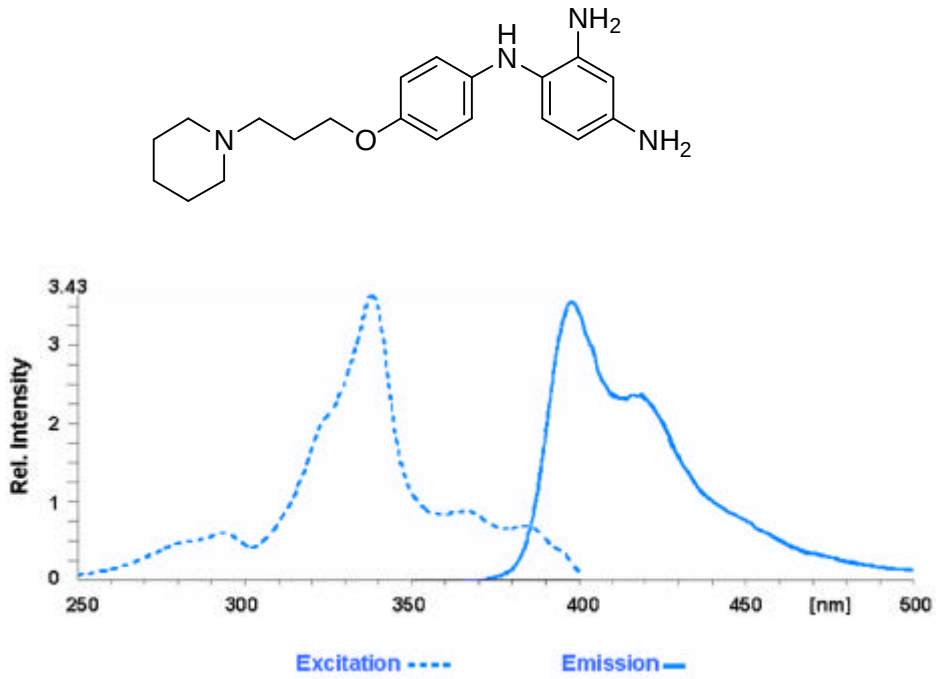

Figure 8. Excitation and emission spectra of the prominent 2,4-diaminoobenzen substituted compound **7h**.

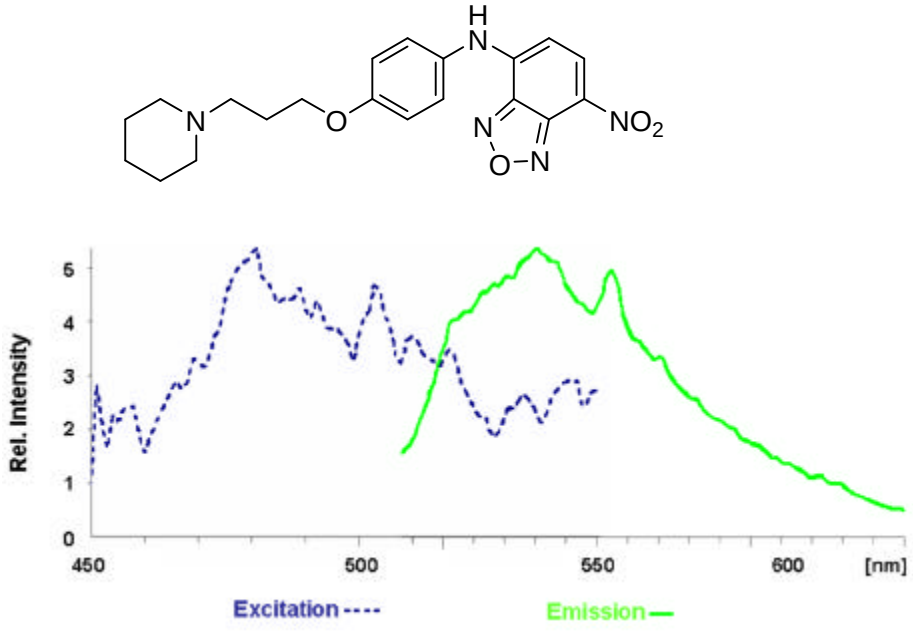

Figure 9. Excitation and emission spectra of the prominent 4-nitrobenzofuran substituted compound **7i**.

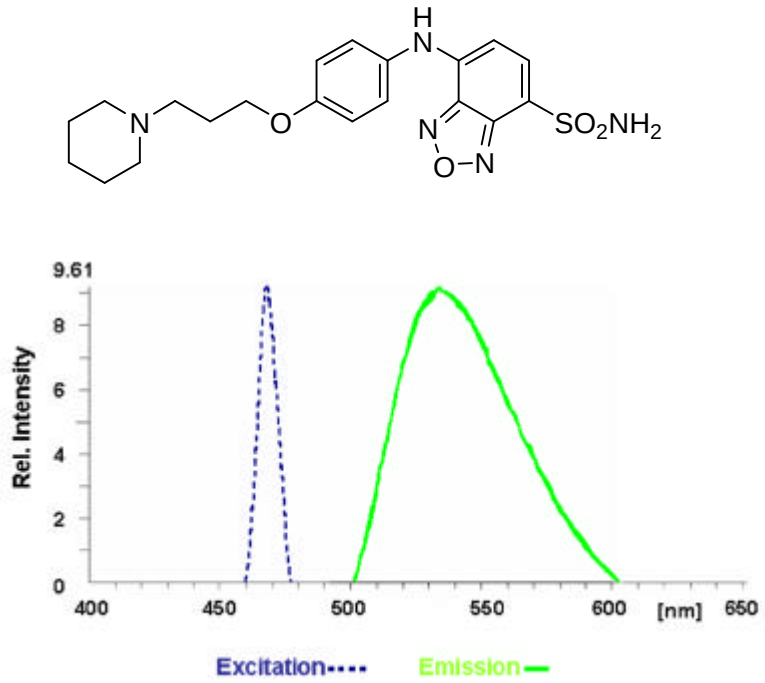

Figure 10. Excitation and emission spectra of the prominent 4-sulfonamidbenzofuran substituted compound **7j**.

Sum formula and data of elemental analysis

Compound No.	Formula	Calculated	Found
6	$C_{21}H_{24}N_2O$ x $0.5H_2O$	C, 76.56; H, 7.65; N, 8.50	C, 76.87; H, 7.55; N, 8.78
9	$C_{21}H_{28}N_2O$ x $0.75H_2O$	C, 74.63; H, 8.80; N, 8.29	C, 74.91; H, 8.65; N, 7.95
4g	$C_{20}H_{23}N_3O_6$ x $0.25H_2O$ x $C_2H_2O_4$	C, 53.28; H, 5.18; N, 8.47	C, 53.01; H, 5.24; N, 8.46
7a	$C_{26}H_{33}N_3O_3S$ x $C_2H_2O_4$	C, 60.30; H, 6.36; N, 7.53	C, 60.22; H, 6.57; N, 7.36
7b	$C_{27}H_{29}N_3O_2$ x $0.5H_2O$ x $C_2H_2O_4$	C, 66.15; H, 6.13; N, 7.98	C, 66.33; H, 6.13; N, 8.22
7c	$C_{25}H_{29}N_3O_4$ x $0.5H_2O$	C, 67.55; H, 6.80; N, 9.45	C, 67.75; H, 6.69; N, 9.55
7d	$C_{23}H_{25}N_3O$ x $C_2H_2O_4$	C, 66.80; H, 6.05; N, 9.35	C, 66.68; H, 6.14; N, 9.21
7e	$C_{28}H_{30}N_2OS$ x $1.25H_2O$ x $C_2H_2O_4$	C, 64.90; H, 6.26; N, 5.05	C, 64.80; H, 5.99; N, 5.16
7f	$C_{27}H_{27}N_3O$ x $1.5H_2O$ x $C_2H_2O_4$	C, 66.15; H, 6.13; N, 7.98	C, 66.42; H, 6.11; N, 7.71
7g	$C_{20}H_{24}N_4O_5$ x $0.75H_2O$ x $C_2H_2O_4$	C, 52.43; H, 5.50; N, 11.12	C, 52.62; H, 5.13; N,11.05
7h	$C_{20}H_{28}N_4O$ x 2 $C_2H_2O_4$	C, 56.75; H, 6.20; N, 10.76	C, 56.87; H, 6.01; N,10.40
7i	$C_{20}H_{23}N_5O_4$ x $C_2H_2O_4$	C, 54.21; H, 5.17; N, 14.37	C, 53.96; H, 5.23; N, 14.11
7j	$C_{20}H_{25}N_5O_4$ x $0.25H_2O$ x 1.5 $C_2H_2O_4$	C, 48.37; H, 5.03; N, 12.26	C, 48.00; H, 5.26; N, 12.55
8a	$C_{27}H_{35}N_3O_3S$ x $0.75H_2O$	C, 65.49; H, 7.43; N, 8.49	C, 65.40; H, 7.19; N, 8.45
8b	$C_{28}H_{31}N_3O_2$ x $C_2H_2O_4$	C, 67.68; H, 6.33; N, 7.72	C, 67.78; H, 6.26; N, 7.90
8d	$C_{24}H_{27}N_3O$	C, 77.18; H, 7.29; N, 11.25	C, 77.09; H, 7.35; N, 11.37
8f	$C_{28}H_{29}N_3O$	C, 79.40; H, 6.90; N, 9.92	C, 79.18; H, 6.90; N, 9.82
8g	$C_{21}H_{26}N_4O_5$ x $C_2H_2O_4$	C, 54.76; H, 5.59; N, 11.11	C, 54.48; H, 5.74; N,10.89
8i	$C_{21}H_{25}N_5O_4$ x $0.75H_2O$ x $C_2H_2O_4$	C, 53.55; H, 5.59; N, 13.57	C, 53.54; H, 5.78; N, 13.20
9g	$C_{27}H_{30}N_4O_5$	C, 66.11; H, 6.16; N, 11.42	C, 66.08; H, 6.36; N,11.56