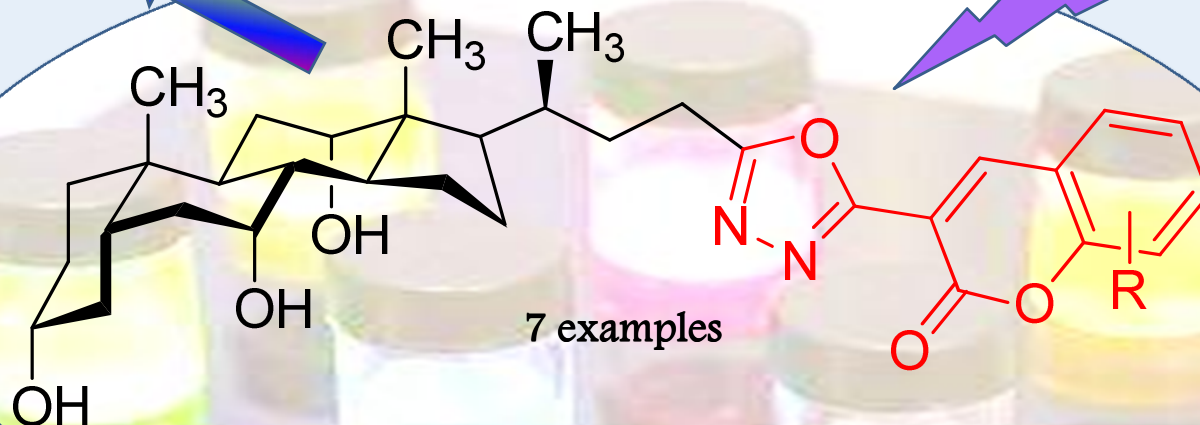


420 – 510nm
fluorescence

UV
325nm



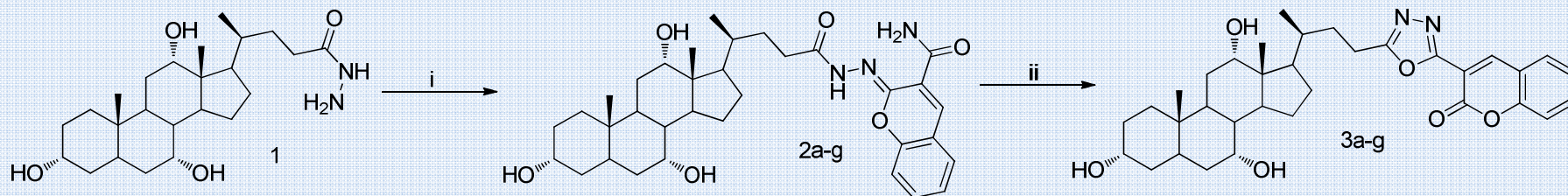
7 examples

**Binding or chemical
modification side**

**Wave-length
modification side**

3-(5-ChD)Cou

3-{5-(3 α ,7 α ,12 α -tOH-Cholyl)-1,3,4-oxadiazol-2-yl}-coumarines



Synthesis cholic-based oxadiazolyl-coumarine – chemosensor precursor.

i – AcOH, 2-iminocoumarine-3-carboxamide, r.t. 1 – 4h, 75-90% yields; ii – Ph₂O, 180°C, 20 – 40min, 65 – 80% yields.

Compound	R	ν_{abs} (EtOH) cm ⁻¹	λ_{abs} (CH ₃ CN) cm ⁻¹	λ_{fl} (EtOH) cm ⁻¹	λ_{fl} (CH ₃ CN) cm ⁻¹	$\Delta\lambda_{\text{st}}$ (EtOH) cm ⁻¹	$\Delta\lambda_{\text{st}}$ (CH ₃ CN) cm ⁻¹	$\phi(\%)$ (EtOH)	$\phi(\%)$ (CH ₃ CN)
3a	H	29400	29840	23780	23760	5620	6080	9,51	12,8
3b	8-EtO	30860	31240	19780	20060	11080	11180	2,22	2,52
3c	8-MeO	30760	31220	19880	20200	10880	11020	2,74	2,72
3d	7-MeO	28080	28760	23160	23200	4920	5560	32,3	38,8
3e	7-N(Et) ₂	23260	23520	20560	20740	2700	2780	54,5	57,6
3f	6-Me	28500	28800	22980	23040	5520	5760	5,18	7,99
3g	6-Cl	28860	28920	23080	23300	5780	5620	3,57	4,78

