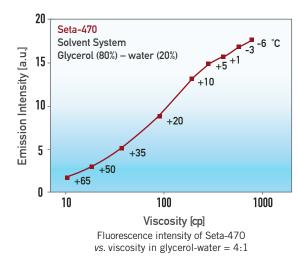
## SETA Viscosity-Sensitive Dyes

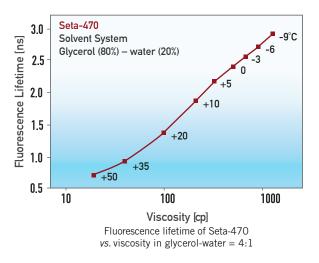


SETA BioMedicals proprietary fluorescent viscosity-sensitive probes for biomedical imaging and sensing applications combine good solubility in water and aqueous buffers, high photostability, a large Stokes' shift and absorption and emission wavelengths in the visible range.

These molecular rotors exhibit high sensitivity as well as a large dynamic range in both the lifetime and intensity modes. They are available in reactive (NHS-ester and maleimide) and non-reactive formats.

| Product Number | Product Name       | Target<br>Group | Medium | λ abs<br>[nm] | ε [M <sup>-1</sup> .<br>cm <sup>-1</sup> ] | λ em<br>[nm] | QY<br>[%] | Medium    | λ abs<br>[nm] | ε [M <sup>-1</sup> .<br>cm <sup>-1</sup> ] | λ em<br>[nm] | QY<br>[%] |
|----------------|--------------------|-----------------|--------|---------------|--|--------------|-----------|-----------|---------------|--|--------------|-----------|
| K8-3002        | Seta-470-NHS       | NH <sub>2</sub> | water  | 469           | 50000                                      | 521          | 1.9       | BSA D/P=1 | 469           | 500000                                     | 515          | 28        |
| K8-3003        | Seta-470-Maleimide | SH              | water  | 469           | 50000                                      | 521          | 1.9       | BSA D/P=1 | 469           | 500000                                     | 515          | 28        |
| K8-3010        | Square-460         |                 | PB 7.4 | 467           | 50000                                      | 515          | 0.9       | Glycerol  | 470           | 500000                                     | 515          | 43        |





The emission intensity as well as the fluorescence lifetime of these molecular rotors increases with increasing viscosity. These labels are ideal for monitoring environmental changes due to protein folding or molecular interactions.

