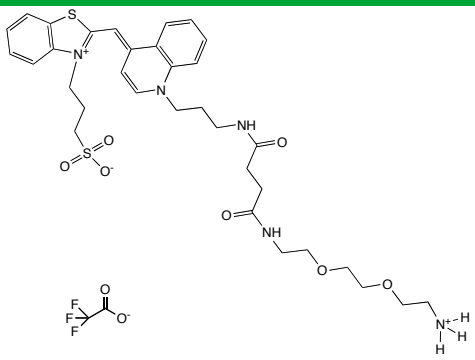
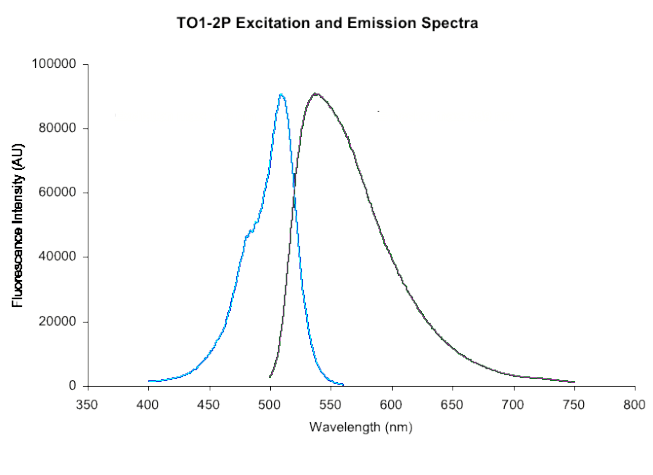


TO1-2p Information

Molecular Biosensors and Imaging Center
Carnegie Mellon University
A Technology Center for Networks and Pathways

Physical Properties		Chemical Structure	
Formula Weight	799.88 g/mol		
Chemical Formula	C ₃₃ H ₄₄ N ₅ O ₇ S ₂ •C ₂ F ₃ O ₂		
Solubility	>10 mg/mL in Water, Methanol		
Storage	2-8 ⁰ C in dark		
Spectral Properties		Excitation/Emission Spectra	
Extinction Coeff.	58,000 M ⁻¹ cm ⁻¹ (504 nm) pH 7.0 Phosphate Buffer		
Ex/Em Maxima	Free TBD/TBD nm Bound 509/530 nm		
Quantum Yield	Free TBD Bound AM2-2(HL1.0.1): 0.47		
Fold Enhancement	2600		
Note: The spectral properties are pH dependent. Perform dilute concentration measurements buffered at pH 7.0.			
Biochemical Properties			
mol Dye / mol scFv		TBD	
Affinity (Cell Surface)		scFv1 (HL1): 360 nM; AM2-2 (HL1.0.1): 3.1 nM	
This dye is cell impermeant. It is typically non-fluorescent unless bound to an appropriate activating molecule, such as the companion scFv's. It is also reversibly activated in cells with compromised membranes, as well as with some components of growth media, such as BSA.			
For more information			
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